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**WEAVER**

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**CONSULTANTS**

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August 7, 2014  
Project No. 2339-356-03-00

Ms. Tracey Michael  
Project Manager  
Indiana Brownfields Program  
100 N. Senate Ave, IGCN 1275  
Indianapolis, IN 46204

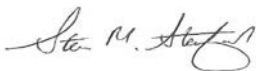
**Re: Phase II Site Investigation  
128(a) IFA Grant for Assessment of:  
Former Sibley/Accucast Foundry  
220 West Eckman Street  
South Bend, Indiana 46614**

Dear Ms. Michael,

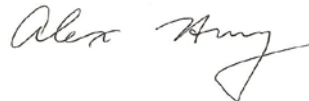
Weaver Boos Consultants, LLC (Weaver Boos) has completed the enclosed Phase II Site Investigation for the Former Sibley/Accucast Foundry. This work was funded primarily by the United States Environmental Protection Agency (U.S. EPA) through a Section 128(a) Brownfield Grant to the Indiana Finance Authority/Indiana Brownfields Project (IFA/Program). This work was authorized by IFA/IBP under Weaver Boos Amendment #9 executed on May 23, 2014.

Weaver Boos trusts that this information is sufficient for the IFA/IBP's current needs relating to this property. Please feel free to call us if there are any further comments or questions regarding this information.

**Very truly yours,  
Weaver Boos Consultants, LLC**



Steven M. Stanford, LPG  
Manager, South Bend Environmental Operations



Alex Huang  
Geologist

Attachment: Phase II Site Investigation, dated August 7, 2014

cc: Chris Dressel, City of South Bend Engineering Department, 227 West Jefferson Blvd., Suite 1400 S, South Bend, IN 46601 (paper copy and electronic copy)  
Jan Pels, U.S. EPA Region 5, 77 West Jackson Blvd., Mail Code SE-4J, Chicago, IL 60604-3507 (paper and electronic copy)

August 7, 2014  
Project No.: 2339-356-03-00

**PHASE II SITE INVESTIGATION**

**128(a) IFA GRANT FOR ASSESSMENT OF  
Former Sibley/Accucast Foundry  
220 West Eckman Street  
South Bend, Indiana**

Prepared For:

**Indiana Finance Authority/Indiana Brownfields Program  
100 North Senate Avenue, Room 1275  
Indianapolis, Indiana 46204**

Prepared by:

**Weaver Boos Consultants, LLC  
7121 Grape Road  
Granger, Indiana 46530**

## EXECUTIVE SUMMARY

Weaver Boos Consultants, LLC (Weaver Boos) has prepared this Phase II Site Investigation (Phase II) report for the Indiana Finance Authority/Indiana Brownfields Program to present the results of our recently completed Work on the Former Sibley/Accucast Foundry site located at 220 West Eckman Street in South Bend, Indiana. This Work was funded primarily by the United States Environmental Protection Agency (U.S. EPA) through a Section 128(a) Brownfield Grant to the Program. The following summary of results and conclusions is supported in the opinion of Weaver Boos with regard for the Property:

1. The Property is located in an urban area situated atop a layer of artificial fill made of various materials and ranging between 0.5-2 feet in thickness. The fill is underlain by an apparently natural loamy layer to a depth of approximately 7 to 10 ft bgs. The deeper natural soil consists of glacial outwash sand and gravel that forms the shallow part of the principal unconsolidated groundwater aquifer. The depth to groundwater ranges from approximately 11 ft to 15 ft below ground surface and the horizontal water table gradient is measured at 0.0053 ft/ft. Using the hydraulic conductivity value of 370 ft/day reported in the professional literature for this aquifer and assuming a porosity of 0.3, groundwater is calculated to flow in a north-northeasterly direction towards Bowman Creek at a velocity of approximately 6.5 ft/day. Bowman Creek is anticipated to intercept shallow groundwater recharge originating on the Property, limiting the potential downgradient extent of migration that might occur from the Property.
2. Information reviewed by Weaver Boos indicates that the Property is not located within a regulated wellhead protection area, although its physical setting is considered geologically susceptible. Records for numerous groundwater supply wells potentially located within a 1-mile radius of the Property were found in the Indiana DNR's online database, but Weaver Boos identified none of the potentially active wells as likely to be impacted by releases to shallow groundwater beneath the Property.
3. Surface soil was found to be unaffected by VOCs above potentially relevant Screening Levels, including residential migration to groundwater, residential direct contact, commercial/industrial direct contact, or excavation worker direct contact screening levels. Semi-volatile organic compounds were typically not detected in the surface soil, and where detected, exceeded a potentially relevant Screening Level in only a single instance (sample P-8 RE (0-2)), where naphthalene was measured at 3,120 µg/kg as

compared with a residential migration to groundwater screening level of 92 µg/kg. Additionally, no PCBs were detected in any of the surface soil samples.

4. Surface soil was found affected by one or more instances of antimony, arsenic, cobalt, iron, or thallium at concentrations above residential Screening Levels for either migration to groundwater, or direct contact exposure to soil. Future residential land use is therefore indicated to be of concern. Concentrations of total arsenic exceeded commercial/industrial direct contact Screening Levels in two instances and the total iron concentration exceeded its commercial/industrial direct contact Screening Level in one instance. However; potential exposure concentrations calculated as 95% UCLs are less than their respective commercial/industrial or excavation worker exposure direct contact Screening Levels, suggesting little or no concern under a future industrial/commercial land use scenario.
5. No VOCs, SVOCs, or PCBs were detected in any of the subsurface soil samples. Except for total iron in two instances and for thallium in all 20 samples, total metals were either not detected, or if detected, at concentrations below potentially relevant Screening Levels. Subsurface soil was unaffected by concentrations above commercial/industrial or excavation worker direct contact Screening Levels.
6. With the exception of tetrachloroethene detected at 6.6 ug/l in temporary groundwater monitoring well TMW-2, which marginally exceeds the residential tap water Screening Level of 5 ug/l, no VOCs were detected in groundwater at concentrations above their respective residential tap water Screening Levels. The only other VOC detected in the groundwater was 1,1,1-trichloroethane at concentrations ranging from 6.2 ug/l up to 9.6 ug/l, which is well below the tap water Screening Level of 200 ug/l. No vapor intrusion Screening Levels were exceeded. No SVOCs were detected in any of the groundwater samples. With the exception of total iron, no metals were detected in any of the groundwater samples. Iron was detected in all of the groundwater samples, yet the concentrations are all less than the residential tap water Screening Level. Little groundwater impact is therefore indicated beneath the Property, and no complete ground groundwater exposure route appears to be present.
7. Overall, results for the Phase II Site Investigation indicate elevated risk and hence concern under future residential land use, but no elevated risk under a future commercial/industrial land use scenario so long as potable water supply wells are not utilized at the Property.

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FORMER SIBLEY/ACCUCAST FOUNDRY**

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## 1.0 INTRODUCTION

### 1.1 Project Identification

Weaver Boos Consultants, LLC (Weaver Boos) has prepared this Phase II Site Investigation (Phase II) report for the Indiana Finance Authority/Indiana Brownfields Program (the Program) to present the results of our recently completed Work on the Former Sibley/Accucast Foundry site (the Property) located at 220 West Eckman Street in South Bend, Indiana. This work was funded primarily by the United States Environmental Protection Agency (U.S. EPA) through a Section 128(a) Brownfield Grant to the Program. This Work was authorized in Amendment #9 executed by the Program on March 6, 2014 and acknowledged by Weaver Boos on March 13, 2014. Amendment #9 authorized two primary stages of Work: a Phase I Environmental Site Assessment (Phase I ESA) and a Phase II Site Investigation. Weaver Boos completed the Phase I ESA on May 23, 2014. This report describes Phase II activities and findings.

The Quality Assurance Project Plan (QAPP) prepared by Weaver Boos for work under the Section 128(a) Brownfields Grant program on June 9, 2014 was approved by the U.S. EPA and the Program in electronic correspondence dated June 18, 2014. The purpose, scope of work, and objectives for the Phase II activities described in this report are specified in the June 10, 2014 *Sampling and Analysis Plan (SAP)*, Revision 2, which was also approved by the U.S. EPA and the Program in electronic correspondence dated June 18, 2014. The Phase II scope of work included the following general elements:

1. Review of existing historical data and background information;
2. Surface and subsurface soil sampling and analysis;
3. Groundwater sampling and analysis;
4. Determination of site-specific groundwater flow direction; and,
5. Integration of existing historical data with the current results to provide an overall assessment of environmental conditions at the Property.

This report is organized and presented in general accordance with the Investigation Report outline listed in Indiana Department of Environmental Management (IDEM) guidance. **Section 1.0** introduces the Property and provides an overview of environmental impact to soil or groundwater based on review of historical data and information. **Section 2.0** provides



background information and presents a baseline project assessment. **Section 3.0** describes the methods of investigation used during the Phase II, thus providing a statement of work. **Section 4.0** presents the results of the Phase II. Conclusions supported by the work are provided **Section 5.0**. References cited are listed in **Section 6.0**. Supporting data and information are summarized and presented on the figures and tables and appended in greater detail.

## **1.2 Overview of Current Contamination Conditions**

Previous environmental inspections or investigations have been undertaken by the IDEM and the SESCO Group of Indianapolis, Indiana (SESCO). These historical reports provide information regarding the environmental condition of the Property between 2003 and 2009. Specific historical reports reviewed by Weaver Boos as part of this investigation include the following:

1. IDEM, September 2003, Screening Site Inspection Report for Sibley Machine and Foundry, South Bend, Indiana, St. Joseph County, U.S. EPA ID: IND984892521
2. SESCO Group, February 2007, RISC-Based Initial Site Characterization (ISC) Report, Former Sibley Foundry, SESCO Group Project Number 3316, State Cleanup Incident #2004-11-003.
3. SESCO Group, January 2008, Further Site Investigation (FSI) Report, Former Sibley Foundry, SESCO Group Project Number 3316, State Cleanup Incident #2004-11-003.
4. SESCO Group, July 2008, Surface Soil Sampling Report, Former Sibley Foundry, SESCO Group Project Number 3316, State Cleanup Incident #2004-11-003.
5. SESCO Group, April 2009, Groundwater Monitoring Event, SESCO Group Project Number 3316, State Cleanup Incident #2004-11-003.
6. IDEM, September 2009, No Further Action Letter, Sibley Foundry, State Cleanup

### ***1.2.1 Summary of Historical Investigations***

Review of the historical investigations and reports prepared between 2003 and 2009 indicates that the Property was historically well characterized in terms of physical subsurface conditions and the nature and extent of potential contaminants in soil and groundwater. The IDEM reached a similar conclusion in 2009, issuing a No Further Action (NFA) letter in response to the SESCO Group's April 27, 2009 Groundwater Monitoring Event Report. The NFA letter concluded that

monitoring wells and/or piezometers were no longer necessary to monitor groundwater quality or groundwater levels and must be permanent abandoned.

Since the issuance of the NFA letter; however, land use and current conditions changed substantially. The IDEM considers the NFA letter void because the Property was abandoned and illegally scrapped and demolished between 2010 and 2012. The Program is concerned that wastes or contaminants may have been released during demolition as suggested by the presence of uncontrolled debris piles and oily stains observed in early 2014. Inasmuch as the Property is currently being considered for acquisition and redevelopment by a neighboring operator, as well as the fact that removal of the historical foundry buildings provides physical access in areas previously unassessed, the Program determined that a comprehensive assessment of current environmental conditions was warranted. Future land use is likely to be commercial/industrial, although the Program requested that the current assessment of the Property consider potential future residential land use.

Results for the majority of historical surface and subsurface soil samples indicated concentrations of metals or organics that were either non-detectable, or less than their respective current Screening Levels for either residential or commercial industrial direct contact as shown on tables in **Appendix A**. Surface soil sample S13-ME1LW2 collected by the IDEM indicated the greatest concentrations of antimony, arsenic, total chromium, iron, selenium, and thallium detected on the Property at concentrations above either background (as established by IDEM, 2003) or a potentially relevant current Screening Level. The arsenic concentration of 205 mg/kg appears particularly elevated relative to all samples collected from the Property, but does not appear to represent true soil concentrations as noted by the IDEM, stating that the sample may have incorporated bag house dust. Its total iron concentration of 249,000 mg/kg (25 percent by weight) would consistent with bag house dust at a gray iron foundry in the experience of Weaver Boos. Several other metals such as antimony, cobalt, iron, manganese, selenium, or thallium exceeded their respective current Screening Levels for residential migration to groundwater in certain samples as shown in **Appendix A, Tables A-1 and A-2**, but their concentrations are typically less than the site-specific background concentrations determined by the IDEM in 2003 as shown on **Table A-3**.

Except for a few early groundwater samples collected before Sesco implemented low-flow sampling techniques, historical groundwater concentrations for total metals, dissolved metals, VOCs, SVOCs, or PCBs indicated non-detectable concentrations, or if detected, concentrations

below their respective former Risk Residential Default Closure Levels or current (2014) Remediation Closure Guide (RCG) Screening Levels for residential tap water.

### ***1.2.2 Phase I Environmental Site Assessment (ESA) – 2014***

The Phase I ESA completed by Weaver Boos on May 23, 2014 identified the following recognized environmental conditions where releases of hazardous substances or petroleum products were previously established in the historical investigation or currently suspected based on the results of the Phase I ESA:

1. The historical detection of arsenic in surface material by the IDEM during its inspection of the Property in 2003 when an elevated concentration of 205 mg/kg was measured in surface material (suspected bag house dust) at the northeast corner of the Property;
2. Large piles of apparent foundry waste located on the south end of the Property;
3. Numerous piles of demolition debris at various locations on the Property;
4. The presence of a heating oil UST as reported by the IDEM after reviewing SESCO's Initial Site Characterization Report for which no other documentation was identified;
5. Debris and water-filled pits at several locations within the historical building footprint;
6. The presence of an oily stain on the ground where a transformer was suspected to have been located;
7. The presence of an oily stain on the ground at the northwest of the Property, in the middle of which rested a blue tarp surrounded by sandbags;
8. The oily-stained floor in the interior of the gatehouse; and
9. The historic oil house included in the 1917 Sanborn™ map.

Weaver Boos notes that much of the surface of the Property was covered with debris or foundry sand and could not be observed.

## 2.0 SITE BACKGROUND

### 2.1 Site History

The Property is located at 220 W. Eckman Street in South Bend, Indiana. The Property lies east of Green Tech Drive and south of West Eckman Street (see **Figure 1 – Property Location Map**). The Property consists of approximately 6.6 acres spread among three irregularly-shaped parcels (ID #018-8013-059801, #018-8013-059802, and #018-8013-059803). According to Saint Joseph County Assessor Records, the owner of record of a 3.8-acre rectangular parcel (ID #018-8013-059802) north of Eckman Street is Accucast Technology, LLC. The parcel north of Eckman Street is not identified as part of the Property as directed by the Program and was thus not investigated during Phase II activities. The Property and many of its historical features are shown on **Figure 2 – Property Configuration**.

Review of the historical records as part of the Phase I ESA suggests that the Property was developed as the Meyer Foundry & Machine Co. in the early 1900's. Information reported by the IDEM and by SESCO, the facility's consultant, indicates that foundry activities began at the Property in 1874. This was not verified by standard historical sources during the Phase I ESA. In 1917, the Sibley Machine Company purchased the Property to supplement its already-existing operations elsewhere in South Bend. Shortly thereafter, the company changed its name to Sibley Machine & Foundry Corporation and operated the Property and its facilities for several decades. According to comments made by Mr. William Voll, President of Sibley Machine & Foundry Co, Sibley switched from coke-fired furnaces to electric furnaces in the mid-1980's in response to impending environmental regulations and subsequently declared bankruptcy in 1987. The Property was leased to General Castings of Ohio from 1998-2002. General Castings eventually encountered financial difficulties and was evicted. Sibley sold the Property to Accucast Technology LLC (Accucast) in 2004. Accucast's Standard Industrial Classification Code is 3321 according to U.S. EPA's Envirofacts website listing, indicating that it was a gray iron foundry. Accucast operated the Property until approximately late 2009 or early 2010 and ceased paying property taxes.

The Property was later sold at tax sale to a buyer who demolished and scrapped the buildings, and subsequently abandoned the Property. The buyer removed economically-valuable materials during the demolition and left behind large piles of structural debris, piles of foundry sand, and the original building's concrete floor and foundations. The Program indicated in an access

agreement that the Property is currently owned by Steven Michael Morehead of Fort Wayne, Indiana. The Property has no current manager and no current occupants.

## **2.2 Geographic Information**

The Property is described as various lots within the southwest  $\frac{1}{4}$  of the northwest quadrant of Section 24, Township 37 North, Range 2 East of the Second Principal Meridian in Portage Township, Saint Joseph County, Indiana. The abbreviated legal descriptions for the three parcels comprising the Property listed on Elkhart County & St. Joseph County Indiana GIS (MACOGGIS) Website are as follows:

1. Parcel Of R R Rightway Nw 1/4 Beg 77.2' E Of Sw Cor Nw 1/4 Cont .566 Ac More Or Less Sec 24 37 2e
2. Tract Sw Nw W Of Rr Cont 4.13 Ac On S Side W Eckman St & 3.75 Ac N Side W Eckman St Sec 24-37-2e
3. Parcel Of Land Beg North 666.35 Ft & East 54 Ft Of Sw Corner Nw 1/4 Sec 24-37-2e Cont 38180 Sq Ft

## **2.3 Geologic Information**

### **2.3.1 Surficial and Unconsolidated Geology**

According to published mapping by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the surface of the Property is divided evenly between the Morocco and Tyner soil series. Both soils are described as deep, loamy sands, with the Tyner series being better-drained than the Morocco. Both soils are associated with outwash sediments deposited at the close of the last glacial period. Parts of the Property are currently covered with piles of discarded foundry sand, deposited up to a maximum height of approximately 25 feet in some areas. Much of the rest of the Property is paved with asphalt or concrete building slabs.

Underlying unconsolidated formations mapped by Schneider and Keller (1970) indicate that deeper unconsolidated deposits consist of undifferentiated ice-contact stratified drift, part of the Largo, Trafalgar, or Atherton Formations. Water well record 73123 obtained from the Indiana Department of Natural Resources (IDNR) indicates that the unconsolidated formation extend to a depth of 112 ft beneath the Property and consist of “topsoil” to a depth of 20 ft below ground surface (bgs), clay from 20 ft to 60 ft bgs, sand and gravel from 60 ft to 112 ft, and shale from 112 ft to 122 ft bgs.

### **2.3.2 Bedrock Geology**

Bedrock consists of the shale of the Ellsworth Shale Formation. According to Gray (1973), the Ellsworth Formation is greenish-gray shale of very low permeability. Joints may yield water that is commonly very high in sulfur content. This formation forms a hydraulic basement beneath the St. Joseph Aquifer System in this part of Indiana.

### **2.3.3 Hydrogeology**

The Property and surrounding area are located within the Hilltop Aquifer System (IDNR, 1987). Throughout the Hilltop Aquifer System, sand and gravel units comprise 60 to 100 percent of the formations penetrated by water wells. This is an area of moderate groundwater availability, 25 to 150 gallons per minute. Iron content of the water ranges from 0.01 mg/L to 0.5 mg/L. To the north, the Saint Joseph Aquifer System (outwash valley that is composed of medium sand to gravel interbedded with clay lenses) contrasts distinctly with the Hilltop Aquifer System that occurs at a higher elevation. The aquifer system is regionally drained by the St. Joseph River to the north and locally drained by groundwater discharge to Bowman Creek. Groundwater is therefore expected to flow northerly beneath the Property. Bowman Creek is a receiving stream located approximately 300 ft to 350 ft north of the Property and is therefore expected by Weaver Boos to intercept most (if not all) shallow groundwater discharges that might originate as recharge on the Property.

## **2.4 Preliminary Evaluation of Potentially Susceptible Areas**

### **2.4.1 Geologic**

The outwash deposits of sand and gravel underlying the Property provide little protection for groundwater. Consequently, the hydrogeologic setting of the Property is considered potentially susceptible to impact by surface or subsurface releases of petroleum products or hazardous substances.

### **2.4.2 Wellhead Protection Areas**

The Property does not fall within a designated Wellhead Protection Area (WHPA), yet is located approximately 0.5 miles north of the City of South Bend's South Municipal Well Field. SESCO found that groundwater beneath the Property flows to the north, away from the South Municipal Well Field consistent with literature regarding regional groundwater flow patterns in the Saint Joseph River Basin. Bowman Creek is a receiving stream located approximately 300 ft to 350 ft north of the Property and is therefore expected by Weaver Boos to intercept most (if not all)

shallow groundwater discharges that might originate as recharge on the Property. Conditions at the Property are not, therefore, expected to pose a material threat to public water supply wells.

### ***2.4.3 Nearby Water Supply Wells***

The IDNR online water well database was reviewed to identify all listed water wells within a 1-mile radius of the Property and high-capacity wells capable of yielding 70 gallons per minute or more within a 2-mile radius as shown in **Appendix B – Water Well Information**. Approximately 49 low-capacity water wells were found listed in areas within 1-mile of the Property. Approximately 32 high-capacity water wells were found listed in areas within 2-miles.

No water supply wells were found mapped between the Property and Bowman Creek located to the north, suggesting little potential for direct impact to downgradient groundwater currently produced by listed water wells. Water wells located nearest to the Property to the north of Bowman Creek include 73118, 73119, 73120, and 73122. Records provided in **Appendix B** indicate that these are owned by the City of South Bend and extend to depth of 129 to 205 ft bgs. Formations penetrated by these wells are mainly sand or gravel to depths of about 70 ft bgs, where blue clay was encountered to depths on the order of 95 ft. Sand, gravel, or additional layer(s) of blue clay were typically encountered by these wells extending to blue shale bedrock at depths ranging from approximately 126 to 195 ft bgs. Screen lengths of 20 ft are reported for wells 73120 and 73122. Their screen intervals are not reported, but are inferred to be near the bottom of each well. Given their location north of the Bowman Creek receiving stream and their inferred deep screen intervals, Weaver Boos considers it unlikely that any of these wells yield water originating as recharge on the Property.

Records for two water wells apparently located on the Property (73123 and 73124) were also found, which again list the City of South Bend as their owner as shown in **Appendix B**. Well 73123 extends to a depth of 122 ft bgs. Well 73124 is reported to extend to a depth of 83 ft bgs. Weaver Boos observed what appeared to be the well heads for two water wells located on the Property during the Phase I ESA. Neither was in service or apparently fitted with a pump.

### ***2.4.4 Social***

The Property is located within an area used for residential, commercial, industrial, and institutional purposes likely to include socially sensitive areas. Specifically, Kaiser Park is located approximately ¼ of a mile north of the Property, and residential neighborhoods are located farther north beyond the park.

### 2.4.5 Ecological

With regard for ecologically susceptible areas, the Property offers little in the way of quality wildlife habitat. The Rum Village Nature Center, encompassing 160 acres of woodland, is located ¼ of a mile west of the Property. Groundwater beneath the Property flows northward and appears to bypass the park, so no specific ecologically susceptible areas were identified based on this preliminary review.

## 2.5 Identification of Constituents of Concern (COCs)

The Program specified a broad range of COCs with consideration for historical activities at the Property that includes volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. Potential releases of polychlorinated biphenyls (PCBs) in select stained soils were a concern as well. Review of the historical sampling data for soil indicates that the following specific metals were previously detected above a relevant Screening Level: antimony, arsenic, cobalt, iron, manganese, selenium, and thallium as illustrated on the historical data tables in **Appendix A**. Weaver Boos notes that while manganese was detected above its Screening Level for migration to residential groundwater, its historical on-site concentrations were less than the background concentration identified by the IDEM. Manganese was therefore not analyzed for this Phase II. On-site concentrations of total chromium and lead conversely were less than their respective Screening Levels in all historical samples, yet were considerably elevated above background. Total chromium and lead were therefore included for analysis. The following COCs were designated for soil and subsurface soil samples:

- Volatile organic compounds (Method 5035A/8260B);
- Semi-volatile organic compounds (Method 8270C and 8270C PAH-SIM as needed to meet residential Screening Levels);
- Antimony, arsenic, cobalt, iron, total chromium, lead, selenium, and thallium (Method 6010B); and,
- Polychlorinated biphenyls (PCBs) (Method 8082A).

The following COCs were designated for groundwater samples:

- Volatile organic compounds (VOCs) (Method 8260B);
- Semi-volatile organic compounds (SVOCs) (Method 8270C and 8270C PAH-SIM as needed to meet residential Screening Levels); and,



- Antimony, arsenic, cobalt, iron, total chromium, lead, selenium, and thallium (Method 6010B).

Additionally, soil and groundwater sample aliquots were collected and held for potential analyses of hexavalent chromium (Method 7196A), dependent on the outcome of total chromium concentrations. Analysis of any of these aliquots proceeded only with written approval from the Program.

## **2.6 Preliminary Evaluation of Contaminant Transport Mechanisms**

Although the Property's natural soil is dominated by permeable sand, silt, and gravel outwash material, more than half of the Property's surface area is overlain by the concrete floor slab and foundations of the former buildings or pavement. Storm water runoff is therefore a potentially significant contaminant transport pathway. While conducting site reconnaissance for the Phase I ESA, Weaver Boos noted piles of debris and super sacks containing apparent foundry waste stacked along the southwestern boundary between the Property and the adjoining transfer station. However, the manager of the transfer station commented during an interview that the super sacks typically prevent runoff from flowing from the Property onto his transfer station facility to the west.

The sand-dominated natural soil beneath the Property is typically permeable. Percolation of precipitation and downward vertical migration of contaminants into the groundwater, followed by lateral groundwater migration in the downgradient direction is therefore considered a potentially significant contaminant transport pathway.

The Property is currently unused, so physical tracking of soil by people, animals, or machinery is regarded only a minor potential concern. The exposed areas of the Property is mostly well vegetated at this time, and so wind transport of particulate is also regarded as a minor present concern. Physical tracking and wind transport may become more relevant during redevelopment or construction for future uses at the Property, but dust emissions, stormwater runoff, sedimentation, or off-site tracking are expected to be controlled by state air management and stormwater pollution prevention rules applicable to similar construction projects.

## **2.7 Preliminary Evaluation of Potential Human Exposure Pathways**

Environmental conditions at the Property, current land use, and its proposed future redevelopment suggest that the following human exposure routes may be relevant for the indicated media and potentially exposed populations:

1. Direct contact with surface soil by construction workers or future industrial/commercial workers that may later occupy the Property;
2. Direct contact with subsurface soil by potential future construction workers who might excavated below 10 ft;
3. Ingestion of groundwater by users of nearby water wells if affected by contaminants migrating from the Property; and,
4. Ingestion of groundwater by future users of water wells that might be drilled or utilized at the Property.

## **2.8 Identification of Existing Data Gaps**

Surface soil down to a depth of 10 ft below ground surface (bgs) is well characterized by the historic sampling data. During the IDEM's 2003 investigation, several surface soil samples were collected from off-site areas, providing comparison data for on-site samples. Gaps in the historic characterization of this medium are generally limited to whether demolition and scrapping operations on the Property have materially affected current soil conditions. Surface soil sampling during this Phase II is intended to address this data gap and provide generally more complete and up-to-date data.

Subsurface soil is defined for this project as extending from 10 ft to 20 ft bgs. Between 2004 and 2007, SESCO collected several soil samples from this interval, as well as a small number from deeper (22.5 to 25 ft bgs). Gaps in this interval are generally limited to whether demolition and scrapping operations on the Property have materially affected the subsurface soil.

Groundwater beneath the Property was previously characterized to a reasonable extent by the historic sampling data. Except for a few early historical groundwater samples collected before the SESCO Group implemented low-flow sampling techniques, groundwater concentrations for total metals, dissolved metals, VOCs, SVOCs, or PCBs indicated non-detectable concentrations, or if detected, concentrations below their respective RDCLs or current RCG Screening Levels for residential tap water. Data gaps in this medium are generally limited to whether demolition and scrapping operations on the Property have materially affected the groundwater quality since it was last characterized.

## 3.0 METHODS OF INVESTIGATION

### 3.1 Sampling and Analysis Plan

The June 10, 2014 *Sampling and Analysis Plan* (SAP), Revision 2, specifies the purpose, objectives, scope of work, and methodologies for the Phase II activities described in this report. Field sampling and analytical protocol for the Phase II were conducted as specified in the approved QAPP. The following activities were conducted in accordance with the SAP:

1. Advancement of 20 strategically-placed soil probes (P-1 through P-10, and TMW-1 through TMW-10) to 24 ft bgs. P-2, P-5, P-9, TMW-4, TMW-5, and TMW-6 were selected to provide coverage in areas of the Property that were historically inaccessible. P-10, TMW-7, TMW-8, TMW-9, and TMW-10 were placed near the foundry sand piles at the south end of the Property. The probe locations are shown in **Figure 3**.
2. Collection of 40 soil samples – two from each soil probe. The first sample was collected from the surface soil interval (0-10 ft bgs) and taken from the first foot of apparent natural soil encountered at each location. The second sample was collected from the subsurface soil interval (10-20 ft bgs) at the interval qualitatively assessed by field personnel to exhibit the highest probability of contamination.
3. Emplacement of 10 temporary monitoring wells in the soil probes with the “TMW” prefix. The wells were constructed of schedule 40 PVC with 1-inch outer diameters. Each well was screened in the 14-24 ft bgs interval.
4. Collection of water samples from each of the monitoring wells.
5. Determination of the groundwater table elevation, flow direction, and rate of flow.
6. The proper management of investigation-derived waste, which included soil samples and water obtained from monitoring well purging, well development, and equipment decontamination.

### 3.2 Fieldwork

#### 3.2.1 Soil Sampling

Soil sampling was completed over the course of three days, on June 19, 20, and 23, 2014. During those days, Enviro-Dynamics, LLC, under the supervision of a Weaver Boos geologist,

advanced 20 soil probes, designated P-1 through P-10 and TMW-1 through TMW-10, on the Property using direct-push drilling technology (i.e. GeoProbe<sup>®</sup>). The probe locations are shown in **Figure 3**. During drilling, soil samples were continuously collected at 4-foot intervals by hydraulically driving a hollow sampling tool into the underlying unconsolidated material. Weaver Boos performed on-site observation during drilling; the soil samples were logged, based on visual observation, and information such as soil type, color, grain size, and moisture was recorded.

Although the SAP called for one foot of soil to be collected per sample, a two-foot-long column was required to fill the containers of each sample. On June 19, surface soil was collected from the first natural-appearing material encountered. Consequently, most of the samples collected on June 19 were taken from 5 ft bgs or lower. During a telephone conversation with the Program on the morning of June 20, it was determined that the surface soil samples should be collected from the first interval of soil, either artificial or natural, that was likely to be contaminated. Therefore, surface soil samples collected on June 20 and 23 tended to be from shallower intervals than those from the first day.

After the conclusion of sampling on June 19, a miscount of sampling containers led to the (erroneous) conclusion that shallow soil sample containers from P-3 and P-8 were missing. In response to this, new boreholes were advanced at P-3 and P-8 on the morning of June 20, and new samples were collected from a shallower interval. The new samples were designated “P-3 RE” and “P-8 RE”. The analytical laboratory later reported that all P-3 and P-8 samples from June 19 had been received and accounted for. Consequently, P-3 and P-8 are represented by two surface soil samples each, from different intervals, in addition to one subsurface soil sample each.

Subsurface soil sampling intervals were chosen based on visual or olfactory evidence of contamination and/or PID readings. Where no evidence of contamination or PID readings was observed or measured, subsurface soil samples were taken from various intervals to construct a thorough vertical profile of soil contamination beneath the Property.

Ten soil probes, designated P-1 through P-10, were backfilled with bentonite chips. The other ten probes, designated TMW-1 through TMW-10, were completed as temporary monitoring wells constructed of 1-inch diameter flush-threaded schedule 40 polyvinyl chloride (PVC). The screen of each temporary monitoring well was 10 feet in length and consisted of 0.010 inch machine-slotted PVC. The screened interval for each temporary monitoring well was placed

approximately 14 ft to 24 ft bgs. The sand pack around the screened interval extended approximately two feet above the top of the screen and the remaining annulus will was backfilled with granular bentonite. Weaver Boos' soil probe logs are recorded in **Appendix C**.

Twenty-two (22) investigative shallow soil samples and 20 investigative subsurface soil samples, two field duplicates, two trip blanks, and one equipment blank were submitted under chain of custody to Pace Analytical Services, Inc. (Pace) in Indianapolis for the requisite analysis of VOCs, SVOCs, PCBs, and a site-specific list of metals (antimony, arsenic, cobalt, iron, chromium, lead, selenium, and thallium). Two of the surface soil samples (P-3 RE and P-8 RE) were analyzed for SVOCs, PCBs, and metals. At the behest of the Program, surface soils from P-1 and TMW-8 were later analyzed for hexavalent chromium, as further described in **Section 4.3.1**.

### ***3.2.2 Groundwater Sampling***

The temporary monitoring wells were developed using a peristaltic pump upon completion. Following stabilization of at least 24 hours, the wells were gauged to measure the depth to groundwater as needed to assess groundwater flow direction. After gauging, groundwater samples were collected from the temporary monitoring wells VOCs using a pneumatic bladder pump with polyethylene tubing and bladders dedicated to each monitoring well. Samples of lesser volatility (SVOCs and metals) were acquired using a peristaltic pump with dedicated polyethylene tubing to efficiently provide the necessary sample volume while maintaining low flow so as not to suspend solids in the groundwater samples. Low-flow groundwater sampling was performed according to standard operating procedure as listed in the QAPP.

Ten (10) investigative groundwater samples, one field duplicate, one trip blank, and one equipment blank were submitted under chain of custody to Pace Analytical Services, Inc. (Pace) in Indianapolis for the requisite analysis of VOCs, SVOCs, and a site-specific list of metals (antimony, arsenic, cobalt, iron, chromium, lead, selenium, and thallium). Groundwater sampling field forms are provided in **Appendix D**.

### ***3.2.3 Survey Control***

Horizontal survey control for this work is North American Datum of 1983 (NAD83), Indiana State Plane West Zone 1302. The work was performed on July 3 using a 2-meter Trimble Juno 3B hand-held GPS unit. Vertical survey control was by optical autolevel using an elevation control point previously established by Weaver Boos at the adjoining Green Tech transfer station. A summary is presented in **Table 1**, and the survey results are provided in **Appendix E**.

### **3.2.4 Analytical Work**

The investigational samples and required quality control/quality assurance (QA/QC) samples collected as part of this investigation were submitted under chain of custody to Pace Analytical Service, Inc. in Indianapolis. Analytical parameters included VOCs, SVOCs, PCBs, and site-specific metals listed in **Section 2.5**. The resulting analytical reports, together with Level III Data Packages for each laboratory report are included in portable document format (.pdf) on the compact disc provided in **Appendix F**.

## 4.0 INVESTIGATION RESULTS

### 4.1 Subsurface Geology Investigation Results

Subsurface geologic conditions encountered during the Phase II are consistent with the professional literature and prior assessments of the Property. Most of the Property is paved with a surficial layer of concrete or asphalt, or covered with apparent fill materials to depths of 0.5 to about 2 ft bgs, consisting of foundry sand mixed with cinders, pulverized brick or casting molds, clay, clinkers, gravel, and other unidentified substances. The apparently natural soil types encountered beneath the pavement or surface fill typically included thin layers of fine to medium sand, silt, gravel, or clay to depths of approximately 7 to 10 ft bgs. The loamy soils near the surface appear to represent the Morocco or Tyner soil series mapped by the USDA/NRCS. Deeper soils encountered by the soil probes typically consisted of fine to coarse sand occasionally including gravel. The deeper sands indicated little or no fine-textured silt or clay.

### 4.2 Hydrogeology Investigation Results

The site-specific hydrogeology also appears to be consistent with the professional literature and historical assessments. The shallow parts of the uppermost aquifer consisted of clean sand containing little or no fine-textured material to the terminus of exploration at 24 ft bgs. The depth to the groundwater surface in the temporary monitoring wells ranged from approximately 11 and 15 ft bgs. Groundwater encountered in unconsolidated sand aquifer beneath the Property appears to be hydraulically unconfined at its surface and thus forms a typical water table condition. Water levels measured in the monitoring wells on June 30, 2014 are listed on **Table 1** and reduced to groundwater elevations (ft above mean sea level) using the survey control data. The potentiometric surface for the Property water table developed from the groundwater elevations is provided on **Figure 4** and shows a uniform north-northeasterly flow towards Bowman Creek.

A gradient of 5.21 ft / 975 ft (0.0053 ft/ft) is indicated between temporary monitoring wells TMW-10 and TMW-3. The gradient was measured along the direction of groundwater flow and approximately parallel to the long axis of the Property boundaries. The hydraulic conductivity of the unconfined outwash aquifer was estimated to be 370 ft/day by Arihood and Cohen (1998) in their extensive study of the hydrogeology of the similar adjoining Elkhart area to the east. The 370 ft/day value is corroborated by calculating hydraulic conductivity using transmissivity and unconsolidated sediment thickness data provided in the IDNR's Water Resource Assessment

87-1 (1987) (Figures 21 and 8 of the reference, respectively). Considering an effective porosity of 0.3 which is typical for sand and gravel aquifers, the horizontal groundwater flow velocity beneath the Site is estimated using Darcy's law as approximately  $(370 \text{ ft/day})(0.0053 \text{ ft/ft})/0.3 = 6.5 \text{ ft/day}$ .

### **4.3 Laboratory Analytical Results**

#### **4.3.1 Surface Soil Analytical Results**

Surface soil VOC concentrations measured during the Phase II are summarized on **Table 2-A**. Surface soil SVOC concentrations are summarized on **Table 2-B**. Surface soil PCB concentrations are summarized on **Table 2-C**. Metals concentrations are summarized on **Table 2-D**. The location, distribution, and concentrations of COCs detected in the surface soil are further summarized as illustrated on **Figure 5 – Soil Concentrations**.

No VOCs were detected in any of the surface soil samples at concentrations above potentially relevant Screening Levels, including residential migration to groundwater, residential direct contact, commercial/industrial direct contact, or excavation worker direct contact exposure. Volatile organic compounds that were detected in surface soil include acetone at 99.9 to 169 µg/kg in soil probes P-10, TWM-2, and TMW-7; n-hexane at 24.0 µg/kg in soil probe P-1, methylene chloride at 22.9 µg/kg in soil probe TMW-2; and, 1,1,1-trichloroethane at 248 µg/kg in soil probe TMW-8. Semi-volatile organic compounds were typically not detected in the surface soil, and where detected, exceeded a potentially relevant Screening Level in only a single instance (sample P-8 RE (0-2)), where naphthalene was measured at 3,120 µg/kg as compared with a residential migration to groundwater screening level of 92 µg/kg. 2-Methylnaphthalene, 2-methylphenol, phenanthrene, and phenol were also detected in sample P-8 RE (0-2) at concentrations of 1,220 µg/kg, 504 µg/kg, 710 µg/kg, and 1,960 µg/kg, respectively, all of which were below their residential direct contact Screening Levels. Weaver Boos notes that the P-8 surface soil sample resembled a black mud and was located in a depression with very poor drainage. No PCBs were detected in any of the surface soil samples.

Antimony was detected in the surface soil sample collected from P-1 (1-3) at 7.9 mg/kg, which marginally exceeds the residential migration to groundwater Screening Level of 5.4 mg/kg. Arsenic was detected at concentrations above residential soil MTG Screening Levels in five of the 20 surface soil samples (P-1 (1-3), P-3 RE(2-4), P-3 (8-10), TMW-2 (2-4), and TMW-8 (1-3) at concentrations ranging from 6.3 mg/kg up to 48.4 mg/kg. The arsenic concentrations measured in P-1 (48.4 mg/kg) and TMW-8 (24.2 mg/kg) exceed the commercial/industrial direct



contact Screening Level of 24 mg/kg. Total cobalt was detected at concentrations above the residential migration to groundwater Screening Level in five of the 20 surface soil samples (P-1 (1-3), P-9 (2-4), P-10 (2-4), TMW-6 (2-4), and TMW-8 (1-3) at concentrations ranging from 4.6 mg/kg up to 22.9 mg/kg. Total iron was detected in 14 of the 20 samples at concentrations above the residential migration to groundwater Screening Level at concentrations ranging from 5,600 mg/kg up to 253,000 mg/kg. One total iron concentration of 90,000 mg/kg in TMW-8 (1-3) exceeded the residential direct contact Screening Level. One total iron concentration of 253,000 mg/kg in P-1 (1-3) exceeded the commercial/industrial and excavation worker direct contact Screening Level of 100,000 mg/kg. Total thallium concentrations measured in 19 of the 20 surface soil samples marginally exceeded either the residential direct contact Screening Level of 1.1 mg/kg, or the residential migration to groundwater Screening Level of 2.9 mg/kg by indicating concentrations ranging from 1.3 mg/kg in sample TMW-3 (8-9) up to 6.3 mg/kg in sample TMW-2 (3-5).

#### **4.3.2 Subsurface Soil Analytical Results**

Subsurface soil VOC concentrations measured during the Phase II are summarized on **Table 3-A**. Surface soil SVOC concentrations are summarized on **Table 3-B**. Surface soil PCB concentrations are summarized on **Table 3-C**. Metals concentrations are summarized on **Table 3-D**. The location, distribution, and concentrations of COCs detected in the subsurface soil are further summarized as illustrated on **Figure 5 – Soil Concentrations**.

No VOCs, SVOCs, or PCBs were detected in any of the subsurface soil samples. Except for total iron in two instances and for total thallium in all 20 samples, total metals were either not detected, or if detected, at concentrations below potentially relevant Screening Levels. Total iron was detected in subsurface soil samples TMW-3 (15-16) at 5,710 mg/kg, and in TMW-10 (10-12) at 8,210 mg/kg, both of which marginally exceed the residential migration to groundwater Screening Level of 5,600 mg/kg. Total thallium concentrations in these subsurface soil samples ranged from 1.5 mg/kg up to 2.8 mg/kg, marginally exceeding the residential direct contact Screening Level of 1.1 mg/kg, although Weaver Boos notes that residential exposure to subsurface soil is not typically a complete exposure route.

#### **4.3.3 Groundwater Analytical Results**

Groundwater VOC concentrations measured during the Phase II are summarized on **Table 4-A**. Groundwater SVOC concentrations are summarized on **Table 4-B**. Metals concentrations are summarized on **Table 4-C**. Weaver Boos notes that the SAP excluded measurement of PCB concentrations in groundwater, and analyses for PCBs were therefore omitted. The location,

distribution, and concentrations of COCs detected in the groundwater are further summarized as illustrated on **Figure 6 – Shallow Groundwater Concentrations**.

With the exception of tetrachloroethene detected at 6.6 ug/l in temporary groundwater monitoring well TMW-2, which marginally exceeds the residential tap water Screening Level of 5 µg/L, no VOCs were detected in groundwater at concentrations above their respective tap water Screening Levels. The only other VOC detected in the groundwater was 1,1,1-trichloroethane at concentrations ranging from 6.2 µg/L up to 9.6 µg/L, which is well below the tap water Screening Level of 200 µg/L. No SVOCs were detected in any of the groundwater samples. With the exception of total iron, no metals were detected in any of the groundwater samples. Iron was detected in all of the groundwater samples at concentrations ranging from 273 µg/L up to 2,770 µg/L, all of which are below the residential tap water screening level of 11,000 µg/L.

#### 4.4 Mapping Concentration and Extent

**Figure 5** summarizes and maps the soil COC concentrations to the Property as previously discussed. Only COCs that were detected above the analytical reporting limit are shown. Concentrations exceeding a potentially relevant Screening Level denoted as follows:

**Bold** – Concentration exceeds residential direct contact or residential migration to groundwater.

**Bold, Dashed Border** – Concentration exceeds commercial/industrial direct contact.

**Reverse Bold** – Concentration exceeds excavation worker direct contact.

**Figure 6** summarizes and maps the groundwater COC concentrations to the Property as previously discussed. Only COCs that were detected above the analytical reporting limit are shown. Concentrations exceeding the residential tap water Screening Level are **bolded**.

#### 4.5 Potential Exposure Concentrations for Surface Soil

Potential exposure concentrations (PECs) were computed where relevant for the surface soil. Potential COCs for which relevant PECs could be calculated include antimony, arsenic, cobalt, iron, and thallium. Each of these COCs was detected above a potentially relevant Screening Level in at least one of the 20 surface soil samples. The calculations performed using the Environmental Protection Agency's ProUCL software are provided in **Appendix G – Potential**

**Exposure Concentrations for Surface Soil.** The results are summarized below and compared with relevant screening levels and background levels as historically reported by the IDEM (2003):

**Relevant PECs for Surface Soil (All values in mg/kg)**

| COC Metal                        | Antimony        | Arsenic | Cobalt | Iron    | Thallium |
|----------------------------------|-----------------|---------|--------|---------|----------|
| 95% UCL                          | NA <sup>1</sup> | 16.74   | 8.293  | 74,413  | 3.219    |
| Residential MTG                  | 5.4             | 5.9     | 4.3    | 5,600   | 2.9      |
| Residential Direct contact       | 43              | 8.5     | 32     | 77,000  | 1.1      |
| Comm./Ind. Direct contact        | 410             | 24      | 300    | 100,000 | 10       |
| Excavation worker Direct contact | 690             | 2,400   | 520    | 100,000 | 17       |
| Background (IDEM, 2003)          | 4.20            | 9.90    | 11.10  | 22.920  | 4.20     |

1 – Antimony was detected in only 2 of the 20 soil samples and so no UCL is suggested by the software.

No PEC could be calculated for antimony because it was only detected in 2 of the 20 soil samples. Its maximum concentration of 7.9 mg/kg exceeds the residential migration to groundwater Screening Level, yet no antimony was detected in any of the 10 groundwater samples collected from the Property. The PEC for arsenic exceeds its respective residential Levels for direct contact and migration to groundwater, and so future residential land use would be of concern for the direct contact soil exposure route. With respect to the groundwater, no arsenic was detected, suggesting that the migration to groundwater exposure route is incomplete. The PEC for cobalt exceeds the residential migration to groundwater Screening Level, yet again, none was detected in the groundwater, suggesting an incomplete exposure route. The PEC for iron exceeds its residential migration to groundwater Screening Level, but the measured groundwater concentrations were less than the corresponding tap water Screening Level, suggesting no adverse health impact to downgradient groundwater users. The PEC for antimony

exceeds its respective residential Levels for direct contact and migration to groundwater, and so future residential land use would be of concern for the direct contact soil exposure route. With respect to the groundwater, no antimony was detected, suggesting that the migration to groundwater exposure route is incomplete.

#### **4.6 Field and Analytical QA/QC**

Field QA/QC soil samples collected during this investigation included two field duplicates, two matrix spike/matrix spike duplicates (MS/MSD), one equipment blank, and the transportation and analysis of two trip blank sets. Each trip blank set was a standard comprised one 40 mL vial containing 5 mL of methanol and two 40 mL vials each containing 5 mL of deionized water. The field duplicate samples, identified as “Surf-Dupe” and “Subsurf-Dup” were collected concurrently with the primary soil samples P-9 (2-4) and TMW-8 (10-12), respectively. The MS/MSD samples were collected concurrently with the primary samples at TMW-6 (2-4) and TMW-5 (12-14), identified with the suffixes “MS” and “MSD”. The equipment blank was obtained by randomly selecting a clean, unused GeoProbe<sup>®</sup> disposable liner, filling it with deionized water, agitating the water inside of the liner by repeatedly turning the liner end over end, and decanting the water to the appropriate sample containers. This water sample was identified as “Soil EQ Blank” and was analyzed for the same constituents as the soil samples. The soil trip blanks consisted of unopened Terra Core sampling kits that accompanied the sampling containers and samples beginning with their delivery to Weaver Boos and ending with their return to the laboratory. The soil duplicate samples have been renamed in **Tables 2 and 3** to save space and to make their counterparts easier to identify.

Field QA/QC groundwater samples collected during this investigation included one field duplicate, one matrix spike/matrix spike duplicate (MS/MSD), one equipment blank, and the transportation and analysis of one trip blank set. Each set contained three 40 mL vials filled with deionized water with no headspace. The field duplicate sample, identified as “GW-Dupe,” was collected concurrently with the primary groundwater sample at temporary monitoring well TMW-6. The MS/MSD sample was collected concurrently with the primary samples at temporary monitoring well TMW-9, identified with the suffixes “MS” and “MSD”. After utilizing proper decontamination procedures, the equipment blank “GW EQ Blank” was collected by pumping an aliquot of deionized water through the bladder pump followed by decanting and containerization of the samples. The trip blank was prepared by the laboratory and accompanied the sampling containers and samples beginning with their delivery to Weaver

Boos and ending with their return to the laboratory. The groundwater duplicate sample was renamed in **Table 4** to save space and to make its counterpart easier to identify.

Weaver Boos requested that the analytical work be conducted in accordance with Pace Analytical Services, Inc. Level III protocol, which provides the information listed in the approved QAPP.

#### **4.7 Data Quality Assessment**

Data quality is discussed in terms of sample delivery and analytical work, field QA/QC results, and finally, in terms of the data quality objectives (DQOs) stated in the approved SAP.

##### **4.7.1 Sample Delivery and Analytical Work**

The soil samples were collected on June 19<sup>th</sup>, 20<sup>th</sup>, and 23<sup>rd</sup>, 2014 and shipped to the laboratory via overnight courier on the day of collection. On June 19<sup>th</sup>, Weaver Boos transferred all samples to FedEx for direct transport to the laboratory. The laboratory indicates that the samples were received in good condition on June 20<sup>th</sup>. P-7 (5-7) was listed twice on the chain of custody, leading to a miscount and the temporary conclusion that P-3 (8-10) and P-8 (6-8) were missing one sample container each. As discussed in **Section 3.2.1**, the laboratory accounted for all the containers and corrected the mistake on the chain of custody, but not before additional samples P-3 RE (2-4) and P-8 RE (0-2) had already been collected. The samples collected on June 20 and 23 were shipped via FedEx and were received by the laboratory with no concerns.

The laboratory reported its soil analytical results without apparently significant qualifiers. Sample P-8 RE(0-2) required a 10X dilution for its PCB analysis due to non-target analyte interference. This increased the reporting limit to 1,130 µg/kg. Also, the iron analyses of several surface soil samples required a 10X dilution due to high iron concentrations in the matrix. Additional details are provided in the analytical reports.

The groundwater samples were collected on July 2, 2014 and shipped to the laboratory via FedEx on the day of collection. The laboratory indicates that the samples were received in good condition on July 3<sup>rd</sup>. Except for a qualification relating to the continuing calibration for total antimony analyses, the laboratory results were not significantly qualified. The continuing calibration for total antimony was reported to be outside of Pace Analytical acceptance limits. Antimony presence below reporting limits was reported associated with the groundwater samples. Antimony results were reported to be unaffected by high bias.

#### **4.7.2 Field QA/QC Results**

The Quality Assurance Project Plan precision objectives for soil and groundwater duplicate samples are 50% and 35% relative percent differences (RPD), respectively. Review of **Tables 2, 3 and 4** shows that these precision objectives were met for subsurface soil samples as demonstrated by sample TMW-8 (10-12) and its duplicate, and also met for groundwater samples as shown by the results obtained for sample TMW-6 and its duplicate. The subsurface soil sample P-9 (2-4) and its duplicate exceeded the precision objectives for the analyses of arsenic, chromium, cobalt, and iron, indicating RPDs calculated at 87 percent, 114 percent, 153 percent, and 107 percent, respectively. This result suggests heterogeneous surface soil concentrations for these analytes that was not removed by the sample compositing process for non-volatile constituent analyses before collection.

Results for the two equipment blanks (“Soil EQ Blank” and “GW EQ Blank”) and three trip blanks identified no constituents above the laboratory reporting limits. No cross contamination during sampling or sample transportation is therefore inferred.

#### **4.8 Data Quality Objectives**

The following data quality objectives (DQOs) are specified in the approved SAP:

- 1) Identify the nature and extent of COCs in surface and subsurface soil; and
- 2) Identify the nature and extent of COCs in groundwater.

Surface and subsurface soil assessment throughout the Property is considered complete, via probes advanced through both the shallow and subsurface soil horizons and the results for soil samples collected from the Property. The nature and extent of COCs in groundwater has been assessed through the collection of groundwater samples. The DQOs stated in the approved SAP therefore appear to have been met.

## 5.0 CONCLUSIONS

### 5.1 Summary of Results

Weaver Boos Consultants, LLC (Weaver Boos) has prepared this Phase II Site Investigation (Phase II) report for the Indiana Finance Authority/Indiana Brownfields Program to present the results of our recently completed Work on the Former Sibley/Accucast Foundry site located at 220 West Eckman Street in South Bend, Indiana. This Work was funded primarily by the United States Environmental Protection Agency (U.S. EPA) through a Section 128(a) Brownfield Grant to the Program.

Review of the historical records as part of the Phase I ESA suggests that the Property was developed as the Meyer Foundry & Machine Co. in the early 1900's, possibly as far back as 1874. The foundry operated continuously for several decades, with the ownership changing to Sibley Machine Company and finally to Accucast Technology LLC. Accucast operated the Property until approximately late 2009 or early 2010 and ceased paying property taxes. The Property was later sold at tax sale to a buyer who demolished and scrapped the buildings, and subsequently abandoned the Property. The buyer removed economically-valuable materials during the demolition and left behind large piles of structural debris, foundry sand, and the original building's concrete floor and foundations.

Historical sample results are tabulated in **Appendix A**. Groundwater level elevations, probe locations, and well details are listed on **Table 1**. Results for the surface soil samples are listed on **Table 2**. Results for subsurface soil samples are listed in **Table 3**. Results for groundwater samples are listed on **Table 4**. Upper confidence limit mean concentrations for metals in surface soil for the Property are listed in **Section 4.5**. Relevant results from the Phase II investigation are mapped to the Property as illustrated in several of the figures. Supporting data and information are appended. The following summary of results and conclusions is supported in the opinion of Weaver Boos with regard for the Property:

1. The Property is located in an urban area situated atop a layer of artificial fill made of various materials and ranging between 0.5-2 feet in thickness. The fill is underlain by an apparently natural loamy layer to a depth of approximately 7 to 10 ft bgs. The deeper natural soil consists of glacial outwash sand and gravel that forms the shallow part of the principal unconsolidated groundwater aquifer. The depth to groundwater ranges from approximately 11 ft to 15 ft below ground surface and the horizontal water table gradient

is measured at 0.0053 ft/ft. Using the hydraulic conductivity value of 370 ft/day reported in the professional literature for this aquifer and assuming a porosity of 0.3, groundwater is calculated to flow in a north-northeasterly direction towards Bowman Creek at a velocity of approximately 6.5 ft/day. Bowman Creek is anticipated to intercept shallow groundwater recharge originating on the Property, limiting the potential downgradient extent of migration that might occur from the Property.

2. Information reviewed by Weaver Boos indicates that the Property is not located within a regulated wellhead protection area, although its physical setting is considered geologically susceptible. Records for numerous groundwater supply wells potentially located within a 1-mile radius of the Property were found in the Indiana DNR's online database, but Weaver Boos identified none of the potentially active wells as likely to be impacted by releases to shallow groundwater beneath the Property.
3. Surface soil was found to be unaffected by VOCs above potentially relevant Screening Levels, including residential migration to groundwater, residential direct contact, commercial/industrial direct contact, or excavation worker direct contact exposure. Semi-volatile organic compounds were typically not detected in the surface soil, and where detected, exceeded a potentially relevant Screening Level in only a single instance (sample P-8 RE (0-2)), where naphthalene was measured at 3,120 µg/kg as compared with a residential migration to groundwater screening level of 92 µg/kg. Additionally, no PCBs were detected in any of the surface soil samples.
4. Surface soil was found affected by one or more instances of antimony, arsenic, cobalt, iron, or thallium at concentrations above residential Screening Levels for either migration to groundwater, or direct contact exposure to soil. Future residential land use is therefore indicated to be of concern. Concentrations of total arsenic exceeded commercial/industrial direct contact Screening Levels in two instances and the total iron concentration exceeded its commercial/industrial direct contact Screening Level in one instance. However; potential exposure concentrations calculated as 95% UCLs are less than their respective commercial/industrial or excavation worker direct contact exposure Screening Levels, suggesting little or no concern under a future industrial/commercial land use scenario.
5. No VOCs, SVOCs, or PCBs were detected in any of the subsurface soil samples. Except for iron in two instances and for thallium in all 20 samples, total metals were either not



detected, or if detected, at concentrations below potentially relevant residential Screening Levels. Subsurface soil was unaffected by concentrations above commercial/industrial or excavation worker direct contact Screening Levels.

6. With the exception of tetrachloroethene detected at 6.6 ug/l in temporary groundwater monitoring well TMW-2, which marginally exceeds the residential tap water Screening Level of 5 ug/l, no VOCs were detected in groundwater at concentrations above their respective residential tap water Screening Levels. The only other VOC detected in the groundwater was 1,1,1-trichloroethane at concentrations ranging from 6.2 ug/l up to 9.6 ug/l, which is well below the tap water Screening Level of 200 ug/l. No vapor intrusion Screening Level is exceeded. No SVOCs were detected in any of the groundwater samples. With the exception of total iron, no metals were detected in any of the groundwater samples. Iron was detected in all of the groundwater samples, but the concentrations are all less than the residential tap water Screening Level. Little groundwater impact is therefore indicated beneath the Property, and no complete ground groundwater exposure route appears to be present.
7. Overall, results for the Phase II Site Investigation indicate elevated risk and hence concern under future residential land use, but no elevated risk under a future commercial/industrial land use scenario so long as potable water supply wells are not utilized at the Property.

## 5.2 Qualifications and Limitations

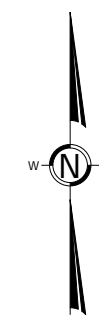
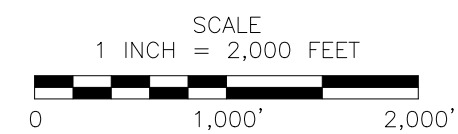
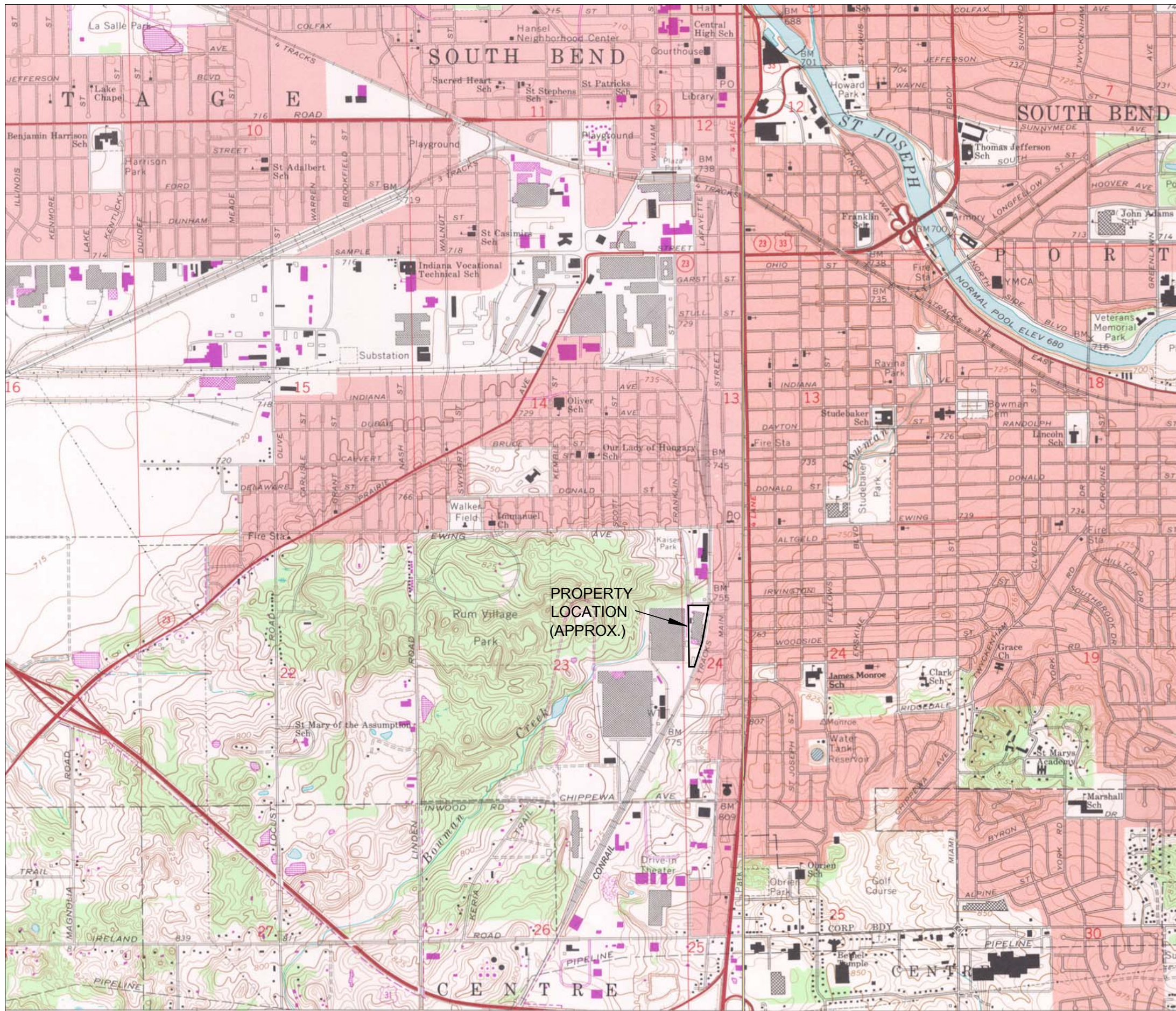
Weaver Boos prepared this Phase II Site Investigation using a defined scope of services considered appropriate and agreed upon by all parties on the date the service was authorized. Weaver Boos conducted this Phase II Site Investigation in accordance with generally accepted practices in a manner consistent with that level of care exercised by other members of our profession in the same locality and practicing under similar circumstances. Our professional opinions are based upon our review of historical information describing the Property, our visual observations of the subsurface conditions, and the results we obtained for widely spaced samples of soil and groundwater. Conditions in areas not specifically sampled or analyzed may differ significantly from those inferred in this assessment. Although the scope of work is believed by Weaver Boos to be appropriate to address the stated objectives, we note that no environmental assessment can completely eliminate uncertainty with respect to the presence, concentration, or

extent of COCs in soil or groundwater. Potential risk posed by surficial demolition debris or foundry waste is not directly characterized by this assessment.

## 6.0 REFERENCES CITED

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- United States Department of Agriculture, Natural Resources Conservation Service. *Web Soil Survey*, data and maps retrieved on 7/29/2014.

## **FIGURES**



- NOTE:**
1. SOUTH BEND WEST, INDIANA 7.5 MINUTE QUADRANGLE MAP, 1969, PHOTOREVISED 1986.
  2. SOUTH BEND EAST, INDIANA 7.5 MINUTE QUADRANGLE MAP, 1992

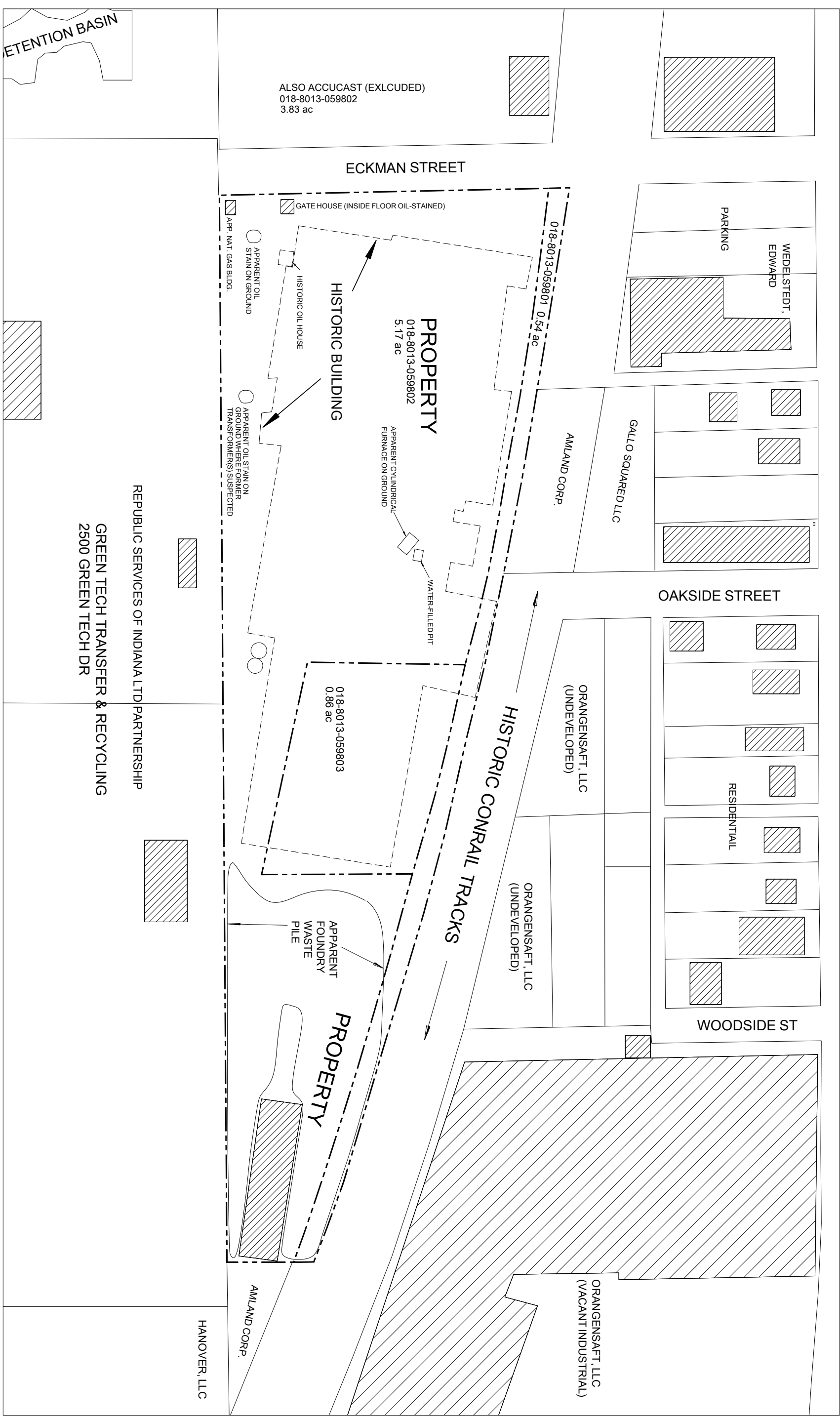
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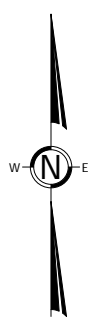


**EXPLANATION**

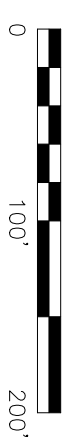
- PROPERTY BOUNDARY (APPROX.)
- PARCEL BOUNDARY (APPROX.)
- ▨ EXISTING BUILDING (TYP.)

**NOTE:**

1. LINE WORK AND PARCEL BOUNDARIES TRACED FROM MACOGIS ARCHIMS VIEWER MAP.
2. SCALE IS APPROXIMATE.



**SCALE**  
1 INCH = 100 FEET



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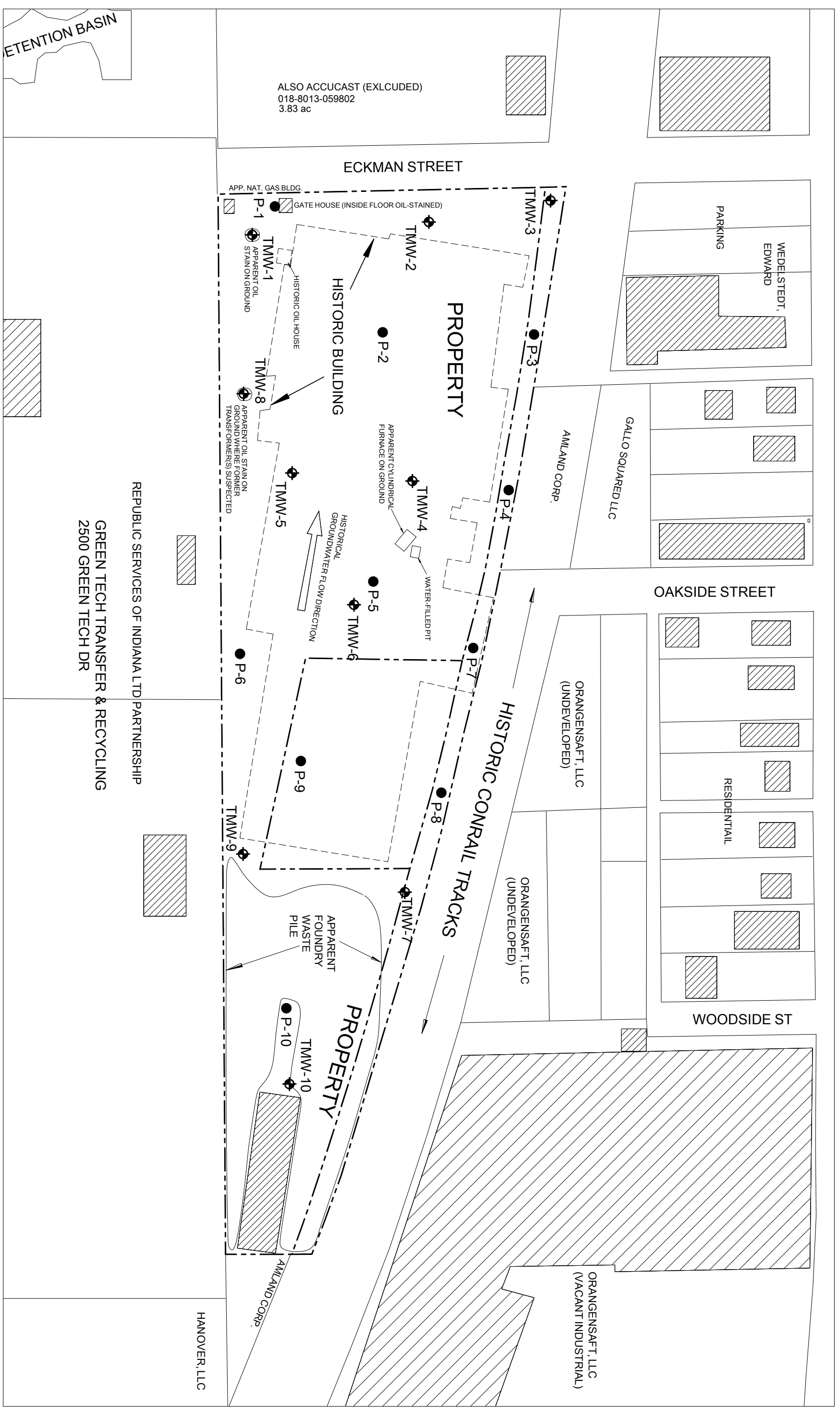
**PROPERTY CONFIGURATION**  
FORMER ACCUCAST TECHNOLOGY/SIBLEY FOUNDRY  
220 WEST ECKMAN STREET SOUTH BEND, INDIANA

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**SAMPLING LOCATIONS**  
FORMER ACCUCAST TECHNOLOGY/SIBLEY FOUNDRY  
220 WEST ECKMAN STREET SOUTH BEND, INDIANA

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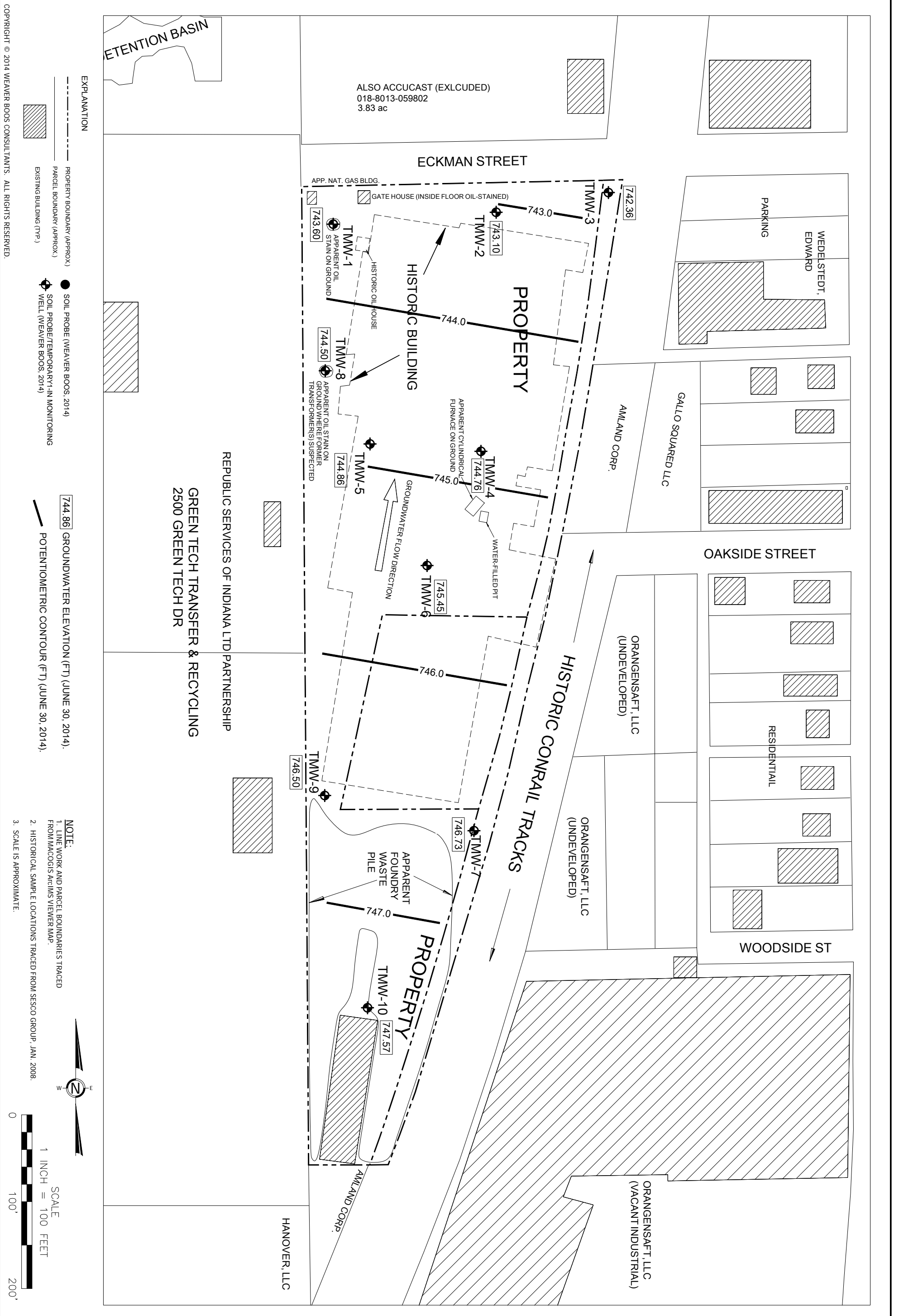
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**FIGURE 3**

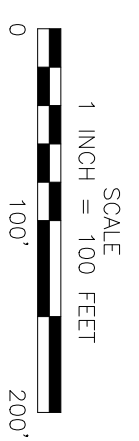


**EXPLANATION**

- PROPERTY BOUNDARY (APPROX.)
- - - PARCEL BOUNDARY (APPROX.)
- ▨ EXISTING BUILDING (TYP.)
- SOIL PROBE (WEAVER BOOS, 2014)
- ⊕ SOIL PROBE/TEMPORARY-1-IN MONITORING WELL (WEAVER BOOS, 2014)

- 744.86 GROUNDWATER ELEVATION (FT) (JUNE 30, 2014).
- POTENTIOMETRIC CONTOUR (FT) (JUNE 30, 2014).

- NOTE:**
1. LINE WORK AND PARCEL BOUNDARIES TRACED FROM MACOGIS ACQUIS VIEWER MAP.
  2. HISTORICAL SAMPLE LOCATIONS TRACED FROM SESCO GROUP, JAN. 2008.
  3. SCALE IS APPROXIMATE.



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**POTENTIOMETRIC MAP (JUNE 30, 2014)**  
 FORMER ACCUCAST TECHNOLOGY/SIBLEY FOUNDRY  
 220 WEST ECKMAN STREET SOUTH BEND, INDIANA

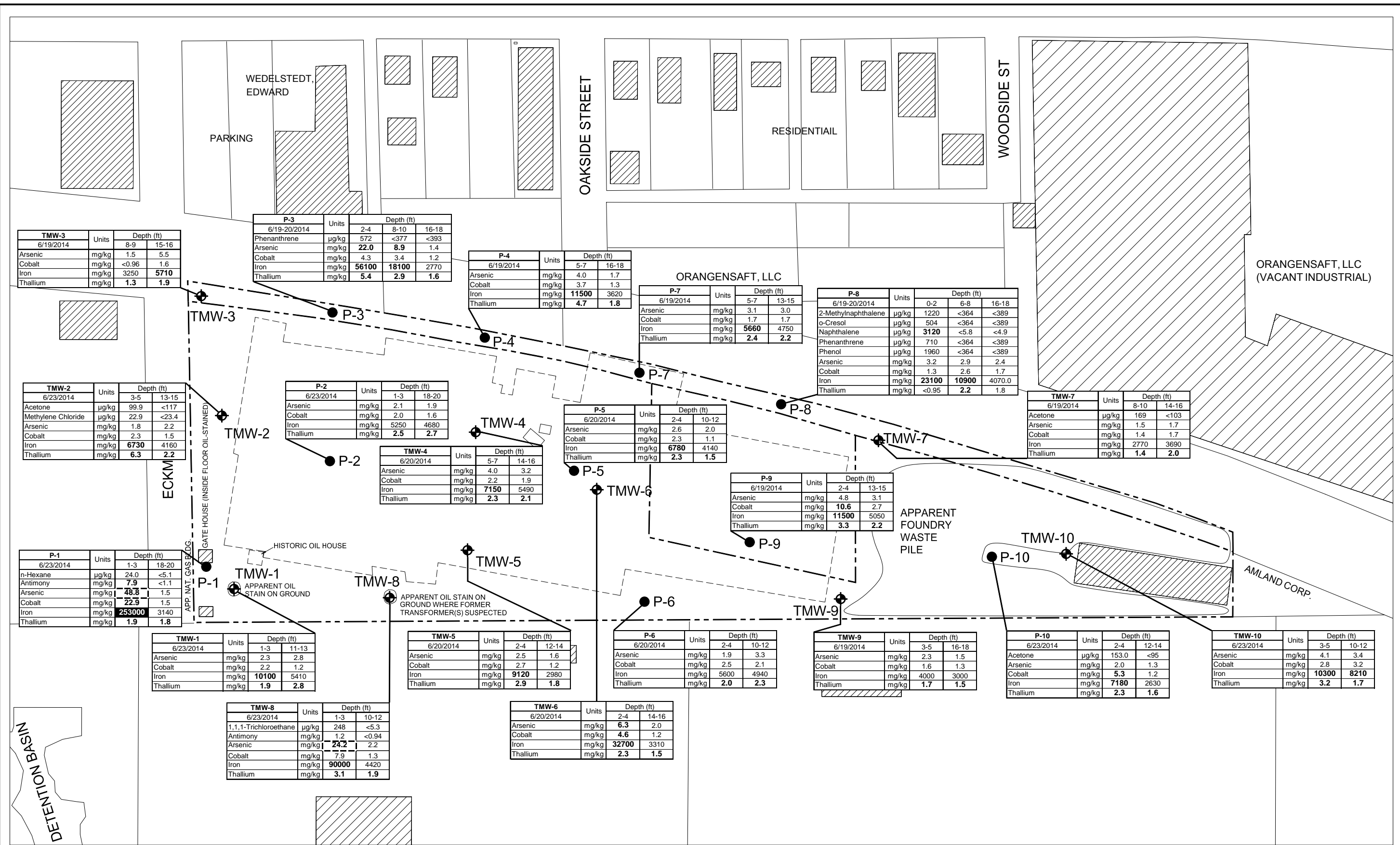
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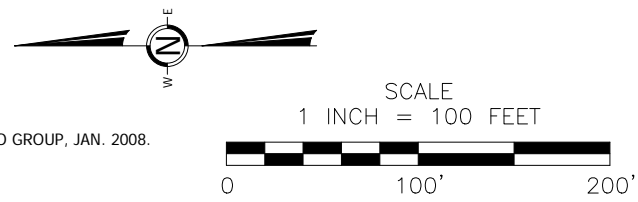
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**EXPLANATION**

- PROPERTY BOUNDARY (APPROX.)
- PARCEL BOUNDARY (APPROX.)
- ▨ EXISTING BUILDING (TYP.)
- SOIL PROBE (WEAVER BOOS, 2014)
- ⊕ SOIL PROBE/TEMPORARY 1-IN MONITORING WELL (WEAVER BOOS, 2014)

24.1 Detected, no SL exceedance  
 24.1 Exceeds Residential Direct OR Residential Soil MTG  
 24.1 Exceeds Com/Ind Direct  
 24.1 Exceeds Excavation Direct

**NOTE:**  
 1. LINE WORK AND PARCEL BOUNDARIES TRACED FROM MACOGIS Arcims VIEWER MAP.  
 2. HISTORICAL SAMPLE LOCATIONS TRACED FROM SESCO GROUP, JAN. 2008.  
 3. SCALE IS APPROXIMATE.



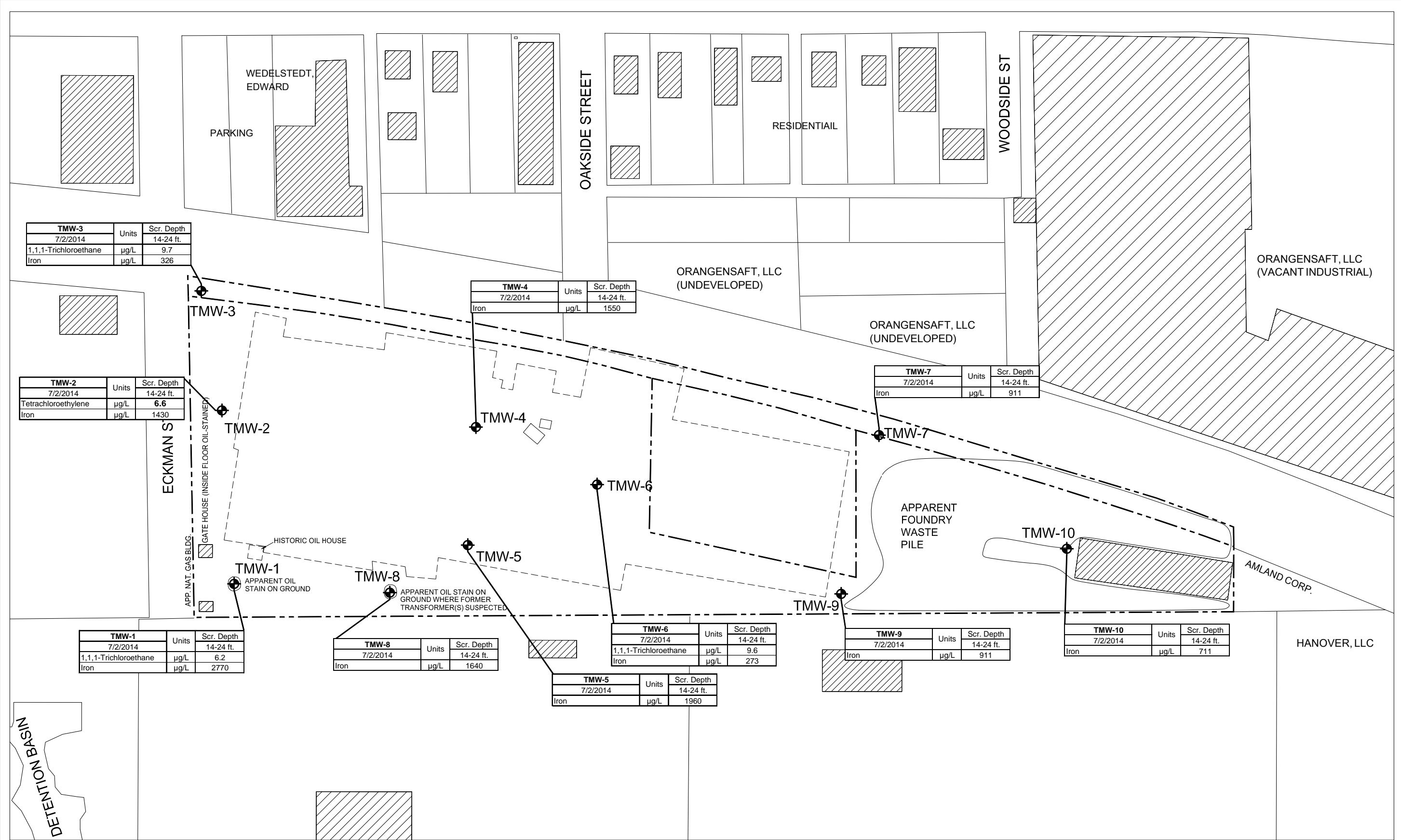
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**EXPLANATION**

|      |                             |  |   |                            |      |                            |  |
|------|-----------------------------|--|---|----------------------------|------|----------------------------|--|
|      | PROPERTY BOUNDARY (APPROX.) |  | SOIL PROBE (WEAVER BOOS, 2014)                                |                            |      |                            |  |
|      | PARCEL BOUNDARY (APPROX.)   |  | SOIL PROBE/TEMPORARY 1-IN MONITORING WELL (WEAVER BOOS, 2014) |                            |      |                            |  |
|      | EXISTING BUILDING (TYP.)    | <table border="1"><tr><td>24.1</td><td>Detected, no SL exceedance</td></tr><tr><td>24.1</td><td>Exceeds Residential Tap SL</td></tr></table> | 24.1  | Detected, no SL exceedance | 24.1 | Exceeds Residential Tap SL |  |
| 24.1 | Detected, no SL exceedance  |  |   |                            |      |                            |  |
| 24.1 | Exceeds Residential Tap SL  |  |   |                            |      |                            |  |

**NOTE:**  
1. LINE WORK AND PARCEL BOUNDARIES TRACED FROM MACOGIS ArcGIS VIEWER MAP.  
2. HISTORICAL SAMPLE LOCATIONS TRACED FROM SESCO GROUP, JAN. 2008.  
3. SCALE IS APPROXIMATE.



# **TABLES**

**Table 1**  
**Soil Probe and Monitoring Well Details**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Location | Easting   | Northing  | Well Stick-up (ft) | Ground Elevation (ft MSL) | Wellhead Elevation (ft MSL) | Depth to Water (ft) | Water Elevation (ft MSL) |
|----------|-----------|-----------|--------------------|---------------------------|-----------------------------|---------------------|--------------------------|
| TMW-1    | 3,179,524 | 2,331,595 | 1.88               | 754.94                    | 756.82                      | 13.22               | 743.60                   |
| TMW-2    | 3,179,712 | 2,331,609 | 1.73               | 755.47                    | 757.20                      | 14.10               | 743.10                   |
| TMW-3    | 3,179,841 | 2,331,632 | 1.08               | 755.91                    | 756.99                      | 14.63               | 742.36                   |
| TMW-4    | 3,179,694 | 2,331,334 | 1.30               | 757.46                    | 758.76                      | 14.00               | 744.76                   |
| TMW-5    | 3,179,566 | 2,331,342 | 1.40               | 757.36                    | 758.76                      | 13.90               | 744.86                   |
| TMW-6    | 3,179,632 | 2,331,202 | 1.39               | 757.13                    | 758.52                      | 13.07               | 745.45                   |
| TMW-7    | 3,179,686 | 2,330,897 | 1.38               | 758.62                    | 760.00                      | 13.27               | 746.73                   |
| TMW-8    | 3,179,515 | 2,331,426 | 1.79               | 756.89                    | 758.68                      | 14.18               | 744.50                   |
| TMW-9    | 3,179,514 | 2,330,937 | 1.48               | 758.39                    | 759.87                      | 13.37               | 746.50                   |
| TMW-10   | 3,179,563 | 2,330,693 | 1.96               | 762.08                    | 764.04                      | 16.47               | 747.57                   |
| P-1      | 3,179,548 | 2,331,625 | N/A                | 755.20                    | N/A                         | N/A                 | N/A                      |
| P-2      | 3,179,662 | 2,331,492 | N/A                | 757.10                    | N/A                         | N/A                 | N/A                      |
| P-3      | 3,179,823 | 2,331,489 | N/A                | 756.30                    | N/A                         | N/A                 | N/A                      |
| P-4      | 3,179,796 | 2,331,324 | N/A                | 756.90                    | N/A                         | N/A                 | N/A                      |
| P-5      | 3,179,652 | 2,331,227 | N/A                | 757.10                    | N/A                         | N/A                 | N/A                      |
| P-6      | 3,179,511 | 2,331,150 | N/A                | 757.60                    | N/A                         | N/A                 | N/A                      |
| P-7      | 3,179,759 | 2,331,156 | N/A                | 757.50                    | N/A                         | N/A                 | N/A                      |
| P-8      | 3,179,725 | 2,331,003 | N/A                | 758.00                    | N/A                         | N/A                 | N/A                      |
| P-9      | 3,179,576 | 2,331,036 | N/A                | 757.10                    | N/A                         | N/A                 | N/A                      |
| P-10     | 3,179,560 | 2,330,774 | N/A                | 762.05                    | N/A                         | N/A                 | N/A                      |

Easting and Northing values are Indiana State Plane Coordinates, U.S. Survey feet, West Zone (1302).

All wellhead elevations and depths-to-water were measured from the northern rim of each well casing.

Water levels in wells were measured on June 30, 2014 within the span of one hour.

Probe ground elevations were interpolated from monitoring well ground elevations.

The benchmark (756.36 ft MSL) was located on the adjoining transfer station property, at the northern rim of a manhole near the scale house.

**Table 2-A**  
**Volatile Organic Compound (VOC) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | Acetone | Acrolein | Acrylonitrile | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | 2-Butanone (MEK) | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Carbon disulfide |
|-----------------|----------------|---------|----------|---------------|---------|--------------|--------------------|----------------------|-----------|--------------|------------------|----------------|------------------|-------------------|------------------|
|                 |                | µg/kg   | µg/kg    | µg/kg         | µg/kg   | µg/kg        | µg/kg              | µg/kg                | µg/kg     | µg/kg        | µg/kg            | µg/kg          | µg/kg            | µg/kg             | µg/kg            |
| P-1 (1-3)       | 06/23/2014     | <105    | <105     | <105          | <5.3    | <5.3         | <5.3               | <5.3                 | <5.3      | <5.3         | <26.3            | <5.3           | <5.3             | <5.3              | <10.5            |
| P-2 (1-3)       | 06/23/2014     | <87.0   | <87.0    | <87.0         | <4.4    | <4.4         | <4.4               | <4.4                 | <4.4      | <4.4         | <21.8            | <4.4           | <4.4             | <4.4              | <8.7             |
| P-3 RE(2-4)     | 06/20/2014     | N/A     | N/A      | N/A           | N/A     | N/A          | N/A                | N/A                  | N/A       | N/A          | N/A              | N/A            | N/A              | N/A               | N/A              |
| P-3 (8-10)      | 06/19/2014     | <101    | <101     | <101          | <5.1    | <5.1         | <5.1               | <5.1                 | <5.1      | <5.1         | <25.3            | <5.1           | <5.1             | <5.1              | <10.1            |
| P-4 (5-7)       | 06/19/2014     | <98.8   | <98.8    | <98.8         | <4.9    | <4.9         | <4.9               | <4.9                 | <4.9      | <4.9         | <24.7            | <4.9           | <4.9             | <4.9              | <9.9             |
| P-5 (2-4)       | 06/20/2014     | <93.6   | <93.6    | <93.6         | <4.7    | <4.7         | <4.7               | <4.7                 | <4.7      | <4.7         | <23.4            | <4.7           | <4.7             | <4.7              | <9.4             |
| P-6 (2-4)       | 06/20/2014     | <97.7   | <97.7    | <97.7         | <4.9    | <4.9         | <4.9               | <4.9                 | <4.9      | <4.9         | <24.4            | <4.9           | <4.9             | <4.9              | <9.8             |
| P-7 (5-7)       | 06/19/2014     | <97.4   | <97.4    | <97.4         | <4.9    | <4.9         | <4.9               | <4.9                 | <4.9      | <4.9         | <24.4            | <4.9           | <4.9             | <4.9              | <9.7             |
| P-8 RE(0-2)     | 06/20/2014     | N/A     | N/A      | N/A           | N/A     | N/A          | N/A                | N/A                  | N/A       | N/A          | N/A              | N/A            | N/A              | N/A               | N/A              |
| P-8 (6-8)       | 06/19/2014     | <116    | <116     | <116          | <5.8    | <5.8         | <5.8               | <5.8                 | <5.8      | <5.8         | <29.1            | <5.8           | <5.8             | <5.8              | <11.6            |
| P-9 (2-4)       | 06/19/2014     | <106    | <106     | <106          | <5.3    | <5.3         | <5.3               | <5.3                 | <5.3      | <5.3         | <26.5            | <5.3           | <5.3             | <5.3              | <10.6            |
| Surf-Dupe (P-9) | 06/19/2014     | <88.0   | <88.0    | <88.0         | <4.4    | <4.4         | <4.4               | <4.4                 | <4.4      | <4.4         | <22.0            | <4.4           | <4.4             | <4.4              | <8.8             |
| P-10 (2-4)      | 06/23/2014     | 153     | <75.7    | <75.7         | <3.8    | <3.8         | <3.8               | <3.8                 | <3.8      | <3.8         | <18.9            | <3.8           | <3.8             | <3.8              | <7.6             |
| TMW-1 (1-3)     | 06/23/2014     | <105    | <105     | <105          | <5.2    | <5.2         | <5.2               | <5.2                 | <5.2      | <5.2         | <26.1            | <5.2           | <5.2             | <5.2              | <10.5            |
| TMW-2 (3-5)     | 06/23/2014     | 99.9    | <92.2    | <92.2         | <4.6    | <4.6         | <4.6               | <4.6                 | <4.6      | <4.6         | <23.1            | <4.6           | <4.6             | <4.6              | <9.2             |
| TMW-3 (8-9)     | 06/19/2014     | <96.4   | <96.4    | <96.4         | <4.8    | <4.8         | <4.8               | <4.8                 | <4.8      | <4.8         | <24.1            | <4.8           | <4.8             | <4.8              | <9.6             |
| TMW-4 (5-7)     | 06/20/2014     | <93.2   | <93.2    | <93.2         | <4.7    | <4.7         | <4.7               | <4.7                 | <4.7      | <4.7         | <23.3            | <4.7           | <4.7             | <4.7              | <9.3             |
| TMW-5 (2-4)     | 06/20/2014     | <118    | <118     | <118          | <5.9    | <5.9         | <5.9               | <5.9                 | <5.9      | <5.9         | <29.6            | <5.9           | <5.9             | <5.9              | <11.8            |
| TMW-6 (2-4)     | 06/20/2014     | <118    | <118     | <118          | <5.9    | <5.9         | <5.9               | <5.9                 | <5.9      | <5.9         | <29.6            | <5.9           | <5.9             | <5.9              | <11.8            |
| TMW-7 (8-10)    | 06/19/2014     | 169     | <109     | <109          | <5.4    | <5.4         | <5.4               | <5.4                 | <5.4      | <5.4         | <27.2            | <5.4           | <5.4             | <5.4              | <10.9            |
| TMW-8 (1-3)     | 06/23/2014     | <207    | <207     | <207          | <10.4   | <10.4        | <10.4              | <10.4                | <10.4     | <10.4        | <51.8            | <10.4          | <10.4            | <10.4             | <20.7            |
| TMW-9 (3-5)     | 06/19/2014     | <98.9   | <98.9    | <98.9         | <4.9    | <4.9         | <4.9               | <4.9                 | <4.9      | <4.9         | <24.7            | <4.9           | <4.9             | <4.9              | <9.9             |
| TMW-10 (3-5)    | 06/23/2014     | <90.3   | <90.3    | <90.3         | <4.5    | <4.5         | <4.5               | <4.5                 | <4.5      | <4.5         | <22.6            | <4.5           | <4.5             | <4.5              | <9.0             |

|                               |           |      |        |        |        |         |        |          |       |          |        |        |        |        |
|-------------------------------|-----------|------|--------|--------|--------|---------|--------|----------|-------|----------|--------|--------|--------|--------|
| <b>Residential Soil MTG</b>   | 49000     | 0.17 | 2      | 51     | 730    | 410     | 430    | 420      | 35    | 21000    | 50000  | 94000  | 23000  | 4200   |
| <b>Residential Direct</b>     | 85000000  | 210  | 3400   | 15000  | 420000 | 220000  | 3800   | 870000   | 10000 | 28000000 | 110000 | 150000 | 180000 | 740000 |
| <b>Comm/Industrial Direct</b> | 100000000 | 650  | 12000  | 54000  | 680000 | 680000  | 14000  | 2200000  | 32000 | 28000000 | 110000 | 150000 | 180000 | 740000 |
| <b>Excavation Direct</b>      | 100000000 | 1100 | 120000 | 750000 | 680000 | 1100000 | 930000 | 20000000 | 54000 | 28000000 | 110000 | 150000 | 180000 | 740000 |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

- N/A N/A entries indicate that the sample was not analyzed for a particular constituent.
- 24.1 Detected, no SL exceedance
- 24.1 Exceeds Residential Direct SL OR Residential Soil MTG SL, whichever is lower
- 24.1 Exceeds Commercial/Industrial Direct SL
- 24.1 Exceeds Excavation Direct SL

**Table 2-A**  
**Volatile Organic Compound (VOC) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | 2-Chlorotoluene | 4-Chlorotoluene | Dibromochloromethane | 1,2-Dibromoethane (EDB) | Dibromomethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | trans-1,4-Dichloro-2-butene | Dichlorodifluoromethane | 1,1-Dichloroethane |
|-----------------|----------------|----------------------|---------------|--------------|------------|---------------|-----------------|-----------------|----------------------|-------------------------|----------------|---------------------|---------------------|---------------------|-----------------------------|-------------------------|--------------------|
|                 |                | Units:               | µg/kg         | µg/kg        | µg/kg      | µg/kg         | µg/kg           | µg/kg           | µg/kg                | µg/kg                   | µg/kg          | µg/kg               | µg/kg               | µg/kg               | µg/kg                       | µg/kg                   | µg/kg              |
| P-1 (1-3)       | 06/23/2014     | <5.3                 | <5.3          | <5.3         | <5.3       | <5.3          | <5.3            | <5.3            | <5.3                 | <5.3                    | <5.3           | <5.3                | <5.3                | <5.3                | <105                        | <5.3                    | <5.3               |
| P-2 (1-3)       | 06/23/2014     | <4.4                 | <4.4          | <4.4         | <4.4       | <4.4          | <4.4            | <4.4            | <4.4                 | <4.4                    | <4.4           | <4.4                | <4.4                | <4.4                | <87.0                       | <4.4                    | <4.4               |
| P-3 RE(2-4)     | 06/20/2014     | N/A                  | N/A           | N/A          | N/A        | N/A           | N/A             | N/A             | N/A                  | N/A                     | N/A            | N/A                 | N/A                 | N/A                 | N/A                         | N/A                     | N/A                |
| P-3 (8-10)      | 06/19/2014     | <5.1                 | <5.1          | <5.1         | <5.1       | <5.1          | <5.1            | <5.1            | <5.1                 | <5.1                    | <5.1           | <5.1                | <5.1                | <5.1                | <101                        | <5.1                    | <5.1               |
| P-4 (5-7)       | 06/19/2014     | <4.9                 | <4.9          | <4.9         | <4.9       | <4.9          | <4.9            | <4.9            | <4.9                 | <4.9                    | <4.9           | <4.9                | <4.9                | <4.9                | <98.8                       | <4.9                    | <4.9               |
| P-5 (2-4)       | 06/20/2014     | <4.7                 | <4.7          | <4.7         | <4.7       | <4.7          | <4.7            | <4.7            | <4.7                 | <4.7                    | <4.7           | <4.7                | <4.7                | <4.7                | <93.6                       | <4.7                    | <4.7               |
| P-6 (2-4)       | 06/20/2014     | <4.9                 | <4.9          | <4.9         | <4.9       | <4.9          | <4.9            | <4.9            | <4.9                 | <4.9                    | <4.9           | <4.9                | <4.9                | <4.9                | <97.7                       | <4.9                    | <4.9               |
| P-7 (5-7)       | 06/19/2014     | <4.9                 | <4.9          | <4.9         | <4.9       | <4.9          | <4.9            | <4.9            | <4.9                 | <4.9                    | <4.9           | <4.9                | <4.9                | <4.9                | <97.4                       | <4.9                    | <4.9               |
| P-8 RE(0-2)     | 06/20/2014     | N/A                  | N/A           | N/A          | N/A        | N/A           | N/A             | N/A             | N/A                  | N/A                     | N/A            | N/A                 | N/A                 | N/A                 | N/A                         | N/A                     | N/A                |
| P-8 (6-8)       | 06/19/2014     | <5.8                 | <5.8          | <5.8         | <5.8       | <5.8          | <5.8            | <5.8            | <5.8                 | <5.8                    | <5.8           | <5.8                | <5.8                | <5.8                | <116                        | <5.8                    | <5.8               |
| P-9 (2-4)       | 06/19/2014     | <5.3                 | <5.3          | <5.3         | <5.3       | <5.3          | <5.3            | <5.3            | <5.3                 | <5.3                    | <5.3           | <5.3                | <5.3                | <5.3                | <106                        | <5.3                    | <5.3               |
| Surf-Dupe (P-9) | 06/19/2014     | <4.4                 | <4.4          | <4.4         | <4.4       | <4.4          | <4.4            | <4.4            | <4.4                 | <4.4                    | <4.4           | <4.4                | <4.4                | <4.4                | <88.0                       | <4.4                    | <4.4               |
| P-10 (2-4)      | 06/23/2014     | <3.8                 | <3.8          | <3.8         | <3.8       | <3.8          | <3.8            | <3.8            | <3.8                 | <3.8                    | <3.8           | <3.8                | <3.8                | <3.8                | <75.7                       | <3.8                    | <3.8               |
| TMW-1 (1-3)     | 06/23/2014     | <5.2                 | <5.2          | <5.2         | <5.2       | <5.2          | <5.2            | <5.2            | <5.2                 | <5.2                    | <5.2           | <5.2                | <5.2                | <5.2                | <105                        | <5.2                    | <5.2               |
| TMW-2 (3-5)     | 06/23/2014     | <4.6                 | <4.6          | <4.6         | <4.6       | <4.6          | <4.6            | <4.6            | <4.6                 | <4.6                    | <4.6           | <4.6                | <4.6                | <4.6                | <92.2                       | <4.6                    | <4.6               |
| TMW-3 (8-9)     | 06/19/2014     | <4.8                 | <4.8          | <4.8         | <4.8       | <4.8          | <4.8            | <4.8            | <4.8                 | <4.8                    | <4.8           | <4.8                | <4.8                | <4.8                | <96.4                       | <4.8                    | <4.8               |
| TMW-4 (5-7)     | 06/20/2014     | <4.7                 | <4.7          | <4.7         | <4.7       | <4.7          | <4.7            | <4.7            | <4.7                 | <4.7                    | <4.7           | <4.7                | <4.7                | <4.7                | <93.2                       | <4.7                    | <4.7               |
| TMW-5 (2-4)     | 06/20/2014     | <5.9                 | <5.9          | <5.9         | <5.9       | <5.9          | <5.9            | <5.9            | <5.9                 | <5.9                    | <5.9           | <5.9                | <5.9                | <5.9                | <118                        | <5.9                    | <5.9               |
| TMW-6 (2-4)     | 06/20/2014     | <5.9                 | <5.9          | <5.9         | <5.9       | <5.9          | <5.9            | <5.9            | <5.9                 | <5.9                    | <5.9           | <5.9                | <5.9                | <5.9                | <118                        | <5.9                    | <5.9               |
| TMW-7 (8-10)    | 06/19/2014     | <5.4                 | <5.4          | <5.4         | <5.4       | <5.4          | <5.4            | <5.4            | <5.4                 | <5.4                    | <5.4           | <5.4                | <5.4                | <5.4                | <109                        | <5.4                    | <5.4               |
| TMW-8 (1-3)     | 06/23/2014     | <10.4                | <10.4         | <10.4        | <10.4      | <10.4         | <10.4           | <10.4           | <10.4                | <10.4                   | <10.4          | <10.4               | <10.4               | <10.4               | <207                        | <10.4                   | <10.4              |
| TMW-9 (3-5)     | 06/19/2014     | <4.9                 | <4.9          | <4.9         | <4.9       | <4.9          | <4.9            | <4.9            | <4.9                 | <4.9                    | <4.9           | <4.9                | <4.9                | <4.9                | <98.9                       | <4.9                    | <4.9               |
| TMW-10 (3-5)    | 06/23/2014     | <4.5                 | <4.5          | <4.5         | <4.5       | <4.5          | <4.5            | <4.5            | <4.5                 | <4.5                    | <4.5           | <4.5                | <4.5                | <4.5                | <90.3                       | <4.5                    | <4.5               |

|                               |        |        |         |         |        |        |        |        |        |        |        |     |          |       |        |         |
|-------------------------------|--------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|-----|----------|-------|--------|---------|
| <b>Residential Soil MTG</b>   | 39     | 1400   | 120000  | 440     | 980    | 3500   | 3700   | 430    | 0.28   | 39     | 12000  | --- | 1400     | 0.11  | 5700   | 140     |
| <b>Residential Direct</b>     | 8500   | 410000 | 2100000 | 4100    | 170000 | 910000 | 250000 | 9500   | 480    | 35000  | 380000 | --- | 34000    | 97    | 130000 | 46000   |
| <b>Comm/Industrial Direct</b> | 30000  | 760000 | 2100000 | 15000   | 500000 | 910000 | 250000 | 33000  | 1700   | 110000 | 380000 | --- | 120000   | 350   | 400000 | 170000  |
| <b>Excavation Direct</b>      | 460000 | 760000 | 2100000 | 1800000 | 840000 | 910000 | 250000 | 800000 | 180000 | 180000 | 380000 | --- | 17000000 | 49000 | 670000 | 1700000 |

**Table 2-A**  
**Volatile Organic Compound (VOC) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | 1,3-Dichloropropane | 2,2-Dichloropropane | 1,1-Dichloropropene | cis-1,3-Dichloropropene | trans-1,3-Dichloropropene | Ethylbenzene | Ethyl methacrylate | Hexachloro-1,3-butadiene | n-Hexane | 2-Hexanone | Iodomethane |
|-----------------|----------------|--------------------|--------------------|------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|-------------------------|---------------------------|--------------|--------------------|--------------------------|----------|------------|-------------|
|                 | Units:         | µg/kg              | µg/kg              | µg/kg                  | µg/kg                    | µg/kg               | µg/kg               | µg/kg               | µg/kg               | µg/kg                   | µg/kg                     | µg/kg        | µg/kg              | µg/kg                    | µg/kg    | µg/kg      | µg/kg       |
| P-1 (1-3)       | 06/23/2014     | <5.3               | <5.3               | <5.3                   | <5.3                     | <5.3                | <5.3                | <5.3                | <5.3                | <5.3                    | <5.3                      | <5.3         | <105               | <5.3                     | 24.0     | <105       | <105        |
| P-2 (1-3)       | 06/23/2014     | <4.4               | <4.4               | <4.4                   | <4.4                     | <4.4                | <4.4                | <4.4                | <4.4                | <4.4                    | <4.4                      | <4.4         | <87.0              | <4.4                     | <4.4     | <87.0      | <87.0       |
| P-3 RE(2-4)     | 06/20/2014     | N/A                | N/A                | N/A                    | N/A                      | N/A                 | N/A                 | N/A                 | N/A                 | N/A                     | N/A                       | N/A          | N/A                | N/A                      | N/A      | N/A        | N/A         |
| P-3 (8-10)      | 06/19/2014     | <5.1               | <5.1               | <5.1                   | <5.1                     | <5.1                | <5.1                | <5.1                | <5.1                | <5.1                    | <5.1                      | <5.1         | <101               | <5.1                     | <5.1     | <101       | <101        |
| P-4 (5-7)       | 06/19/2014     | <4.9               | <4.9               | <4.9                   | <4.9                     | <4.9                | <4.9                | <4.9                | <4.9                | <4.9                    | <4.9                      | <4.9         | <98.8              | <4.9                     | <4.9     | <98.8      | <98.8       |
| P-5 (2-4)       | 06/20/2014     | <4.7               | <4.7               | <4.7                   | <4.7                     | <4.7                | <4.7                | <4.7                | <4.7                | <4.7                    | <4.7                      | <4.7         | <93.6              | <4.7                     | <4.7     | <93.6      | <93.6       |
| P-6 (2-4)       | 06/20/2014     | <4.9               | <4.9               | <4.9                   | <4.9                     | <4.9                | <4.9                | <4.9                | <4.9                | <4.9                    | <4.9                      | <4.9         | <97.7              | <4.9                     | <4.9     | <97.7      | <97.7       |
| P-7 (5-7)       | 06/19/2014     | <4.9               | <4.9               | <4.9                   | <4.9                     | <4.9                | <4.9                | <4.9                | <4.9                | <4.9                    | <4.9                      | <4.9         | <97.4              | <4.9                     | <4.9     | <97.4      | <97.4       |
| P-8 RE(0-2)     | 06/20/2014     | N/A                | N/A                | N/A                    | N/A                      | N/A                 | N/A                 | N/A                 | N/A                 | N/A                     | N/A                       | N/A          | N/A                | N/A                      | N/A      | N/A        | N/A         |
| P-8 (6-8)       | 06/19/2014     | <5.8               | <5.8               | <5.8                   | <5.8                     | <5.8                | <5.8                | <5.8                | <5.8                | <5.8                    | <5.8                      | <5.8         | <116               | <5.8                     | <5.8     | <116       | <116        |
| P-9 (2-4)       | 06/19/2014     | <5.3               | <5.3               | <5.3                   | <5.3                     | <5.3                | <5.3                | <5.3                | <5.3                | <5.3                    | <5.3                      | <5.3         | <106               | <5.3                     | <5.3     | <106       | <106        |
| Surf-Dupe (P-9) | 06/19/2014     | <4.4               | <4.4               | <4.4                   | <4.4                     | <4.4                | <4.4                | <4.4                | <4.4                | <4.4                    | <4.4                      | <4.4         | <88.0              | <402                     | <4.4     | <88.0      | <88.0       |
| P-10 (2-4)      | 06/23/2014     | <3.8               | <3.8               | <3.8                   | <3.8                     | <3.8                | <3.8                | <3.8                | <3.8                | <3.8                    | <3.8                      | <3.8         | <75.7              | <366                     | <3.8     | <75.7      | <75.7       |
| TMW-1 (1-3)     | 06/23/2014     | <5.2               | <5.2               | <5.2                   | <5.2                     | <5.2                | <5.2                | <5.2                | <5.2                | <5.2                    | <5.2                      | <5.2         | <105               | <5.2                     | <5.2     | <105       | <105        |
| TMW-2 (3-5)     | 06/23/2014     | <4.6               | <4.6               | <4.6                   | <4.6                     | <4.6                | <4.6                | <4.6                | <4.6                | <4.6                    | <4.6                      | <4.6         | <92.2              | <4.6                     | <4.6     | <92.2      | <92.2       |
| TMW-3 (8-9)     | 06/19/2014     | <4.8               | <4.8               | <4.8                   | <4.8                     | <4.8                | <4.8                | <4.8                | <4.8                | <4.8                    | <4.8                      | <4.8         | <96.4              | <4.8                     | <4.8     | <96.4      | <96.4       |
| TMW-4 (5-7)     | 06/20/2014     | <4.7               | <4.7               | <4.7                   | <4.7                     | <4.7                | <4.7                | <4.7                | <4.7                | <4.7                    | <4.7                      | <4.7         | <93.2              | <4.7                     | <4.7     | <93.2      | <93.2       |
| TMW-5 (2-4)     | 06/20/2014     | <5.9               | <5.9               | <5.9                   | <5.9                     | <5.9                | <5.9                | <5.9                | <5.9                | <5.9                    | <5.9                      | <5.9         | <118               | <5.9                     | <5.9     | <118       | <118        |
| TMW-6 (2-4)     | 06/20/2014     | <5.9               | <5.9               | <5.9                   | <5.9                     | <5.9                | <5.9                | <5.9                | <5.9                | <5.9                    | <5.9                      | <5.9         | <118               | <5.9                     | <5.9     | <118       | <118        |
| TMW-7 (8-10)    | 06/19/2014     | <5.4               | <5.4               | <5.4                   | <5.4                     | <5.4                | <5.4                | <5.4                | <5.4                | <5.4                    | <5.4                      | <5.4         | <109               | <5.4                     | <5.4     | <109       | <109        |
| TMW-8 (1-3)     | 06/23/2014     | <10.4              | <10.4              | <10.4                  | <10.4                    | <10.4               | <10.4               | <10.4               | <10.4               | <10.4                   | <10.4                     | <10.4        | <207               | <1870                    | <10.4    | <207       | <207        |
| TMW-9 (3-5)     | 06/19/2014     | <4.9               | <4.9               | <4.9                   | <4.9                     | <4.9                | <4.9                | <4.9                | <4.9                | <4.9                    | <4.9                      | <4.9         | <98.9              | <4.9                     | <4.9     | <98.9      | <98.9       |
| TMW-10 (3-5)    | 06/23/2014     | <4.5               | <4.5               | <4.5                   | <4.5                     | <4.5                | <4.5                | <4.5                | <4.5                | <4.5                    | <4.5                      | <4.5         | <90.3              | <4.5                     | <4.5     | <90.3      | <90.3       |

|                               |        |         |         |         |        |         |     |     |        |        |        |         |         |        |         |     |
|-------------------------------|--------|---------|---------|---------|--------|---------|-----|-----|--------|--------|--------|---------|---------|--------|---------|-----|
| <b>Residential Soil MTG</b>   | 28     | 50      | 410     | 590     | 33     | 2000    | --- | --- | 29     | 29     | 16000  | 2000    | 100     | 34000  | 160     | --- |
| <b>Residential Direct</b>     | 6000   | 340000  | 220000  | 210000  | 13000  | 1500000 | --- | --- | 24000  | 24000  | 76000  | 1100000 | 85000   | 140000 | 290000  | --- |
| <b>Comm/Industrial Direct</b> | 22000  | 1100000 | 2000000 | 690000  | 47000  | 1500000 | --- | --- | 59000  | 59000  | 270000 | 1100000 | 220000  | 140000 | 1400000 | --- |
| <b>Excavation Direct</b>      | 250000 | 1200000 | 2400000 | 1200000 | 120000 | 1500000 | --- | --- | 520000 | 520000 | 480000 | 1100000 | 1000000 | 140000 | 2300000 | --- |

**Table 2-A**  
**Volatile Organic Compound (VOC) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | Isopropylbenzene (Cumene) | p-Isopropyltoluene | Methylene Chloride | 4-Methyl-2-pentanone (MIBK) | Methyl-tert-butyl ether | Naphthalene | n-Propylbenzene | Styrene | 1,1,1,2-Tetrachloroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Toluene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane |
|-----------------|----------------|---------------------------|--------------------|--------------------|-----------------------------|-------------------------|-------------|-----------------|---------|---------------------------|---------------------------|-------------------|---------|------------------------|------------------------|-----------------------|-----------------------|
|                 |                | Units:                    | µg/kg              | µg/kg              | µg/kg                       | µg/kg                   | µg/kg       | µg/kg           | µg/kg   | µg/kg                     | µg/kg                     | µg/kg             | µg/kg   | µg/kg                  | µg/kg                  | µg/kg                 | µg/kg                 |
| P-1 (1-3)       | 06/23/2014     | <5.3                      | <5.3               | <21.0              | <26.3                       | <5.3                    | <5.3        | <5.3            | <5.3    | <5.3                      | <5.3                      | <5.3              | <5.3    | <5.3                   | <5.3                   | <5.3                  | <5.3                  |
| P-2 (1-3)       | 06/23/2014     | <4.4                      | <4.4               | <17.4              | <21.8                       | <4.4                    | <4.4        | <4.4            | <4.4    | <4.4                      | <4.4                      | <4.4              | <4.4    | <4.4                   | <4.4                   | <4.4                  | <4.4                  |
| P-3 RE(2-4)     | 06/20/2014     | N/A                       | N/A                | N/A                | N/A                         | N/A                     | N/A         | N/A             | N/A     | N/A                       | N/A                       | N/A               | N/A     | N/A                    | N/A                    | N/A                   | N/A                   |
| P-3 (8-10)      | 06/19/2014     | <5.1                      | <5.1               | <20.2              | <25.3                       | <5.1                    | <5.1        | <5.1            | <5.1    | <5.1                      | <5.1                      | <5.1              | <5.1    | <5.1                   | <5.1                   | <5.1                  | <5.1                  |
| P-4 (5-7)       | 06/19/2014     | <4.9                      | <4.9               | <19.8              | <24.7                       | <4.9                    | <4.9        | <4.9            | <4.9    | <4.9                      | <4.9                      | <4.9              | <4.9    | <4.9                   | <4.9                   | <4.9                  | <4.9                  |
| P-5 (2-4)       | 06/20/2014     | <4.7                      | <4.7               | <18.7              | <23.4                       | <4.7                    | <4.7        | <4.7            | <4.7    | <4.7                      | <4.7                      | <4.7              | <4.7    | <4.7                   | <4.7                   | <4.7                  | <4.7                  |
| P-6 (2-4)       | 06/20/2014     | <4.9                      | <4.9               | <19.5              | <24.4                       | <4.9                    | <4.9        | <4.9            | <4.9    | <4.9                      | <4.9                      | <4.9              | <4.9    | <4.9                   | <4.9                   | <4.9                  | <4.9                  |
| P-7 (5-7)       | 06/19/2014     | <4.9                      | <4.9               | <19.5              | <24.4                       | <4.9                    | <4.9        | <4.9            | <4.9    | <4.9                      | <4.9                      | <4.9              | <4.9    | <4.9                   | <4.9                   | <4.9                  | <4.9                  |
| P-8 RE(0-2)     | 06/20/2014     | N/A                       | N/A                | N/A                | N/A                         | N/A                     | N/A         | N/A             | N/A     | N/A                       | N/A                       | N/A               | N/A     | N/A                    | N/A                    | N/A                   | N/A                   |
| P-8 (6-8)       | 06/19/2014     | <5.8                      | <5.8               | <23.3              | <29.1                       | <5.8                    | <5.8        | <5.8            | <5.8    | <5.8                      | <5.8                      | <5.8              | <5.8    | <5.8                   | <5.8                   | <5.8                  | <5.8                  |
| P-9 (2-4)       | 06/19/2014     | <5.3                      | <5.3               | <21.2              | <26.5                       | <5.3                    | <5.3        | <5.3            | <5.3    | <5.3                      | <5.3                      | <5.3              | <5.3    | <5.3                   | <5.3                   | <5.3                  | <5.3                  |
| Surf-Dupe (P-9) | 06/19/2014     | <4.4                      | <4.4               | <17.6              | <22.0                       | <4.4                    | <402        | <4.4            | <4.4    | <4.4                      | <4.4                      | <4.4              | <4.4    | <4.4                   | <4.4                   | <4.4                  | <4.4                  |
| P-10 (2-4)      | 06/23/2014     | <3.8                      | <3.8               | <15.1              | <18.9                       | <3.8                    | <366        | <3.8            | <3.8    | <3.8                      | <3.8                      | <3.8              | <3.8    | <3.8                   | <3.8                   | <3.8                  | <3.8                  |
| TMW-1 (1-3)     | 06/23/2014     | <5.2                      | <5.2               | <20.9              | <26.1                       | <5.2                    | <5.2        | <5.2            | <5.2    | <5.2                      | <5.2                      | <5.2              | <5.2    | <5.2                   | <5.2                   | <5.2                  | <5.2                  |
| TMW-2 (3-5)     | 06/23/2014     | <4.6                      | <4.6               | 22.9               | <23.1                       | <4.6                    | <4.6        | <4.6            | <4.6    | <4.6                      | <4.6                      | <4.6              | <4.6    | <4.6                   | <4.6                   | <4.6                  | <4.6                  |
| TMW-3 (8-9)     | 06/19/2014     | <4.8                      | <4.8               | <19.3              | <24.1                       | <4.8                    | <4.8        | <4.8            | <4.8    | <4.8                      | <4.8                      | <4.8              | <4.8    | <4.8                   | <4.8                   | <4.8                  | <4.8                  |
| TMW-4 (5-7)     | 06/20/2014     | <4.7                      | <4.7               | <18.6              | <23.3                       | <4.7                    | <4.7        | <4.7            | <4.7    | <4.7                      | <4.7                      | <4.7              | <4.7    | <4.7                   | <4.7                   | <4.7                  | <4.7                  |
| TMW-5 (2-4)     | 06/20/2014     | <5.9                      | <5.9               | <23.7              | <29.6                       | <5.9                    | <5.9        | <5.9            | <5.9    | <5.9                      | <5.9                      | <5.9              | <5.9    | <5.9                   | <5.9                   | <5.9                  | <5.9                  |
| TMW-6 (2-4)     | 06/20/2014     | <5.9                      | <5.9               | <23.7              | <29.6                       | <5.9                    | <5.9        | <5.9            | <5.9    | <5.9                      | <5.9                      | <5.9              | <5.9    | <5.9                   | <5.9                   | <5.9                  | <5.9                  |
| TMW-7 (8-10)    | 06/19/2014     | <5.4                      | <5.4               | <21.8              | <27.2                       | <5.4                    | <5.4        | <5.4            | <5.4    | <5.4                      | <5.4                      | <5.4              | <5.4    | <5.4                   | <5.4                   | <5.4                  | <5.4                  |
| TMW-8 (1-3)     | 06/23/2014     | <10.4                     | <10.4              | <41.5              | <51.8                       | <10.4                   | <1870       | <10.4           | <10.4   | <10.4                     | <10.4                     | <10.4             | <10.4   | <10.4                  | <10.4                  | 248                   | <10.4                 |
| TMW-9 (3-5)     | 06/19/2014     | <4.9                      | <4.9               | <19.8              | <24.7                       | <4.9                    | <4.9        | <4.9            | <4.9    | <4.9                      | <4.9                      | <4.9              | <4.9    | <4.9                   | <4.9                   | <4.9                  | <4.9                  |
| TMW-10 (3-5)    | 06/23/2014     | <4.5                      | <4.5               | <18.1              | <22.6                       | <4.5                    | <4.5        | <4.5            | <4.5    | <4.5                      | <4.5                      | <4.5              | <4.5    | <4.5                   | <4.5                   | <4.5                  | <4.5                  |

|                               |        |     |         |         |         |         |        |        |        |         |        |        |        |        |        |       |
|-------------------------------|--------|-----|---------|---------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-------|
| <b>Residential Soil MTG</b>   | 13000  | --- | 25      | 4500    | 540     | 92      | 20000  | 2200   | 38     | 5.2     | 45     | 14000  | 310    | 4100   | 1400   | 32    |
| <b>Residential Direct</b>     | 270000 | --- | 500000  | 3400000 | 600000  | 50000   | 260000 | 870000 | 27000  | 7800    | 120000 | 820000 | 69000  | 87000  | 640000 | 2200  |
| <b>Comm/Industrial Direct</b> | 270000 | --- | 3100000 | 3400000 | 2200000 | 180000  | 260000 | 870000 | 93000  | 28000   | 170000 | 820000 | 490000 | 270000 | 640000 | 6800  |
| <b>Excavation Direct</b>      | 270000 | --- | 3300000 | 3400000 | 8900000 | 1000000 | 260000 | 870000 | 680000 | 1900000 | 170000 | 820000 | 820000 | 400000 | 640000 | 11000 |



**Table 2-A**  
**Volatile Organic Compound (VOC) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | Trichloroethene | Trichlorofluoromethane | 1,2,3-Trichloropropane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Vinyl acetate | Vinyl chloride | Xylene (Total) | Percent Moisture |
|-----------------|----------------|-----------------|------------------------|------------------------|------------------------|------------------------|---------------|----------------|----------------|------------------|
| Units:          |                | µg/kg           | µg/kg                  | µg/kg                  | µg/kg                  | µg/kg                  | µg/kg         | µg/kg          | µg/kg          | %                |
| P-1 (1-3)       | 06/23/2014     | <5.3            | <5.3                   | <5.3                   | <5.3                   | <5.3                   | <105          | <5.3           | <10.5          | 4.2              |
| P-2 (1-3)       | 06/23/2014     | <4.4            | <4.4                   | <4.4                   | <4.4                   | <4.4                   | <87.0         | <4.4           | <8.7           | 8.0              |
| P-3 RE(2-4)     | 06/20/2014     | N/A             | N/A                    | N/A                    | N/A                    | N/A                    | N/A           | N/A            | N/A            | 12.2             |
| P-3 (8-10)      | 06/19/2014     | <5.1            | <5.1                   | <5.1                   | <5.1                   | <5.1                   | <101          | <5.1           | <10.1          | 13.3             |
| P-4 (5-7)       | 06/19/2014     | <4.9            | <4.9                   | <4.9                   | <4.9                   | <4.9                   | <98.8         | <4.9           | <9.9           | 9.2              |
| P-5 (2-4)       | 06/20/2014     | <4.7            | <4.7                   | <4.7                   | <4.7                   | <4.7                   | <93.6         | <4.7           | <9.4           | 4.3              |
| P-6 (2-4)       | 06/20/2014     | <4.9            | <4.9                   | <4.9                   | <4.9                   | <4.9                   | <97.7         | <4.9           | <9.8           | 6.3              |
| P-7 (5-7)       | 06/19/2014     | <4.9            | <4.9                   | <4.9                   | <4.9                   | <4.9                   | <97.4         | <4.9           | <9.7           | 14.5             |
| P-8 RE(0-2)     | 06/20/2014     | N/A             | N/A                    | N/A                    | N/A                    | N/A                    | N/A           | N/A            | N/A            | 12.7             |
| P-8 (6-8)       | 06/19/2014     | <5.8            | <5.8                   | <5.8                   | <5.8                   | <5.8                   | <116          | <5.8           | <11.6          | 9.9              |
| P-9 (2-4)       | 06/19/2014     | <5.3            | <5.3                   | <5.3                   | <5.3                   | <5.3                   | <106          | <5.3           | <10.6          | 18.7             |
| Surf-Dupe (P-9) | 06/19/2014     | <4.4            | <4.4                   | <4.4                   | <4.4                   | <4.4                   | <88.0         | <4.4           | <8.8           | 18.0             |
| P-10 (2-4)      | 06/23/2014     | <3.8            | <3.8                   | <3.8                   | <3.8                   | <3.8                   | <75.7         | <3.8           | <7.6           | 10.1             |
| TMW-1 (1-3)     | 06/23/2014     | <5.2            | <5.2                   | <5.2                   | <5.2                   | <5.2                   | <105          | <5.2           | <10.5          | 4.0              |
| TMW-2 (3-5)     | 06/23/2014     | <4.6            | <4.6                   | <4.6                   | <4.6                   | <4.6                   | <92.2         | <4.6           | <9.2           | 6.4              |
| TMW-3 (8-9)     | 06/19/2014     | <4.8            | <4.8                   | <4.8                   | <4.8                   | <4.8                   | <96.4         | <4.8           | <9.6           | 5.6              |
| TMW-4 (5-7)     | 06/20/2014     | <4.7            | <4.7                   | <4.7                   | <4.7                   | <4.7                   | <93.2         | <4.7           | <9.3           | 4.4              |
| TMW-5 (2-4)     | 06/20/2014     | <5.9            | <5.9                   | <5.9                   | <5.9                   | <5.9                   | <118          | <5.9           | <11.8          | 5.8              |
| TMW-6 (2-4)     | 06/20/2014     | <5.9            | <5.9                   | <5.9                   | <5.9                   | <5.9                   | <118          | <5.9           | <11.8          | 12.9             |
| TMW-7 (8-10)    | 06/19/2014     | <5.4            | <5.4                   | <5.4                   | <5.4                   | <5.4                   | <109          | <5.4           | <10.9          | 15.5             |
| TMW-8 (1-3)     | 06/23/2014     | <10.4           | <10.4                  | <10.4                  | <10.4                  | <10.4                  | <207          | <10.4          | <20.7          | 12.7             |
| TMW-9 (3-5)     | 06/19/2014     | <4.9            | <4.9                   | <4.9                   | <4.9                   | <4.9                   | <98.9         | <4.9           | <9.9           | 17.0             |
| TMW-10 (3-5)    | 06/23/2014     | <4.5            | <4.5                   | <4.5                   | <4.5                   | <4.5                   | <90.3         | <4.5           | <9.0           | 8.2              |

|                               |       |         |       |        |        |         |        |        |
|-------------------------------|-------|---------|-------|--------|--------|---------|--------|--------|
| <b>Residential Soil MTG</b>   | 36    | 14000   | 0.056 | 440    | 2500   | 1700    | 14     | 200000 |
| <b>Residential Direct</b>     | 6200  | 1100000 | 70    | 87000  | 180000 | 1400000 | 840    | 260000 |
| <b>Comm/Industrial Direct</b> | 20000 | 1200000 | 950   | 220000 | 180000 | 2800000 | 17000  | 260000 |
| <b>Excavation Direct</b>      | 34000 | 1200000 | 37000 | 220000 | 180000 | 2800000 | 660000 | 260000 |

**Table 2-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Benzyl alcohol | 4-Bromophenylphenyl ether | Butylbenzylphthalate | 4-Chloro-3-methylphenol | 4-Chloroaniline | bis(2-Chloroethoxy)methane | bis(2-Chloroethyl) ether | bis(2chloro1methyl) ether |
|-----------------|----------------|--------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|----------------|---------------------------|----------------------|-------------------------|-----------------|----------------------------|--------------------------|---------------------------|
|                 |                | Units:       | µg/kg          | µg/kg      | µg/kg              | µg/kg          | µg/kg                | µg/kg                | µg/kg                | µg/kg          | µg/kg                     | µg/kg                | µg/kg                   | µg/kg           | µg/kg                      | µg/kg                    | µg/kg                     |
| P-1 (1-3)       | 06/23/2014     | <341         | <341           | <341       | <341               | <176           | <341                 | <341                 | <341                 | <682           | <341                      | <341                 | <682                    | <682            | <341                       | <341                     | <341                      |
| P-2 (1-3)       | 06/23/2014     | <354         | <354           | <354       | <354               | <182           | <354                 | <354                 | <354                 | <708           | <354                      | <354                 | <708                    | <708            | <354                       | <354                     | <354                      |
| P-3 RE(2-4)     | 06/20/2014     | <371         | <371           | <371       | <371               | <191           | <371                 | <371                 | <371                 | <742           | <371                      | <371                 | <742                    | <742            | <371                       | <371                     | <371                      |
| P-3 (8-10)      | 06/19/2014     | <377         | <377           | <377       | <377               | <194           | <377                 | <377                 | <377                 | <754           | <377                      | <377                 | <754                    | <754            | <377                       | <377                     | <377                      |
| P-4 (5-7)       | 06/19/2014     | <362         | <362           | <362       | <362               | <187           | <362                 | <362                 | <362                 | <724           | <362                      | <362                 | <724                    | <724            | <362                       | <362                     | <362                      |
| P-5 (2-4)       | 06/20/2014     | <344         | <344           | <344       | <344               | <177           | <344                 | <344                 | <344                 | <687           | <344                      | <344                 | <687                    | <687            | <344                       | <344                     | <344                      |
| P-6 (2-4)       | 06/20/2014     | <349         | <349           | <349       | <349               | <180           | <349                 | <349                 | <349                 | <697           | <349                      | <349                 | <697                    | <697            | <349                       | <349                     | <349                      |
| P-7 (5-7)       | 06/19/2014     | <385         | <385           | <385       | <385               | <198           | <385                 | <385                 | <385                 | <769           | <385                      | <385                 | <769                    | <769            | <385                       | <385                     | <385                      |
| P-8 RE(0-2)     | 06/20/2014     | <374         | <374           | <374       | <374               | <193           | <374                 | <374                 | <374                 | <748           | <374                      | <374                 | <748                    | <748            | <374                       | <374                     | <374                      |
| P-8 (6-8)       | 06/19/2014     | <364         | <364           | <364       | <364               | <187           | <364                 | <364                 | <364                 | <728           | <364                      | <364                 | <728                    | <728            | <364                       | <364                     | <364                      |
| P-9 (2-4)       | 06/19/2014     | <404         | <404           | <404       | <404               | <208           | <404                 | <404                 | <404                 | <809           | <404                      | <404                 | <809                    | <809            | <404                       | <404                     | <404                      |
| Surf-Dupe (P-9) | 06/19/2014     | <402         | <402           | <402       | <402               | <207           | <402                 | <402                 | <402                 | <804           | <402                      | <402                 | <804                    | <804            | <402                       | <402                     | <402                      |
| P-10 (2-4)      | 06/23/2014     | <366         | <366           | <366       | <366               | <189           | <366                 | <366                 | <366                 | <732           | <366                      | <366                 | <732                    | <732            | <366                       | <366                     | <366                      |
| TMW-1 (1-3)     | 06/23/2014     | <341         | <341           | <341       | <341               | <176           | <341                 | <341                 | <341                 | <683           | <341                      | <341                 | <683                    | <683            | <341                       | <341                     | <341                      |
| TMW-2 (3-5)     | 06/23/2014     | <348         | <348           | <348       | <348               | <179           | <348                 | <348                 | <348                 | <696           | <348                      | <348                 | <696                    | <696            | <348                       | <348                     | <348                      |
| TMW-3 (8-9)     | 06/19/2014     | <345         | <345           | <345       | <345               | <178           | <345                 | <345                 | <345                 | <690           | <345                      | <345                 | <690                    | <690            | <345                       | <345                     | <345                      |
| TMW-4 (5-7)     | 06/20/2014     | <343         | <343           | <343       | <343               | <177           | <343                 | <343                 | <343                 | <686           | <343                      | <343                 | <686                    | <686            | <343                       | <343                     | <343                      |
| TMW-5 (2-4)     | 06/20/2014     | <349         | <349           | <349       | <349               | <180           | <349                 | <349                 | <349                 | <699           | <349                      | <349                 | <699                    | <699            | <349                       | <349                     | <349                      |
| TMW-6 (2-4)     | 06/20/2014     | <376         | <376           | <376       | <376               | <194           | <376                 | <376                 | <376                 | <752           | <376                      | <376                 | <752                    | <752            | <376                       | <376                     | <376                      |
| TMW-7 (8-10)    | 06/19/2014     | <389         | <389           | <389       | <389               | <201           | <389                 | <389                 | <389                 | <779           | <389                      | <389                 | <779                    | <779            | <389                       | <389                     | <389                      |
| TMW-8 (1-3)     | 06/23/2014     | <1870        | <1870          | <1870      | <1870              | <961           | <1870                | <1870                | <1870                | <3730          | <1870                     | <1870                | <3730                   | <3730           | <1870                      | <1870                    | <1870                     |
| TMW-9 (3-5)     | 06/19/2014     | <393         | <393           | <393       | <393               | <202           | <393                 | <393                 | <393                 | <785           | <393                      | <393                 | <785                    | <785            | <393                       | <393                     | <393                      |
| TMW-10 (3-5)    | 06/23/2014     | <357         | <357           | <357       | <357               | <184           | <357                 | <357                 | <357                 | <715           | <357                      | <357                 | <715                    | <715            | <357                       | <357                     | <357                      |

|                               |          |     |           |         |        |         |     |         |           |     |           |           |         |         |        |         |
|-------------------------------|----------|-----|-----------|---------|--------|---------|-----|---------|-----------|-----|-----------|-----------|---------|---------|--------|---------|
| <b>Residential Soil MTG</b>   | 82000    | --- | 860000    | 2100    | 4700   | 7000    | --- | 68000   | 7300      | --- | 41000     | 26000     | 27      | 210     | 0.63   | 23      |
| <b>Residential Direct</b>     | 4800000  | --- | 24000000  | 2100    | 210    | 2100    | --- | 21000   | 8500000   | --- | 3600000   | 8500000   | 34000   | 250000  | 2900   | 64000   |
| <b>Comm/Industrial Direct</b> | 33000000 | --- | 100000000 | 21000   | 2100   | 21000   | --- | 210000  | 62000000  | --- | 9100000   | 62000000  | 86000   | 1800000 | 10000  | 220000  |
| <b>Excavation Direct</b>      | 55000000 | --- | 100000000 | 1300000 | 130000 | 1300000 | --- | 1300000 | 100000000 | --- | 100000000 | 100000000 | 4200000 | 3100000 | 750000 | 1000000 |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide  
 N/A entries indicate that the sample was not analyzed for a particular constituent.  
 24.1 Detected, no SL exceedance  
 24.1 Exceeds Residential Direct SL OR Residential Soil MTG SL, whichever is lower  
 24.1 Exceeds Commercial/Industrial Direct SL  
 24.1 Exceeds Excavation Direct SL

**Table 2-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | 2-Chloronaphthalene | 2-Chlorophenol | 4-Chlorophenylphenyl ether | Chrysene | Dibenz(a,h)anthracene | Dibenzofuran | 3,3'-Dichlorobenzidine | 2,4-Dichlorophenol | Diethylphthalate | 2,4-Dimethylphenol | Dimethylphthalate | Di-n-butylphthalate | 4,6-Dinitro-2-methylphenol | 2,4-Dinitrophenol | 2,4-Dinitrotoluene | 2,6-Dinitrotoluene |
|-----------------|----------------|---------------------|----------------|----------------------------|----------|-----------------------|--------------|------------------------|--------------------|------------------|--------------------|-------------------|---------------------|----------------------------|-------------------|--------------------|--------------------|
|                 |                | Units:              | µg/kg          | µg/kg                      | µg/kg    | µg/kg                 | µg/kg        | µg/kg                  | µg/kg              | µg/kg            | µg/kg              | µg/kg             | µg/kg               | µg/kg                      | µg/kg             | µg/kg              | µg/kg              |
| P-1 (1-3)       | 06/23/2014     | <341                | <341           | <341                       | <341     | <176                  | <341         | <682                   | <341               | <341             | <341               | <341              | <341                | <1650                      | <1650             | <341               | <341               |
| P-2 (1-3)       | 06/23/2014     | <354                | <354           | <354                       | <354     | <182                  | <354         | <708                   | <354               | <354             | <354               | <354              | <354                | <1720                      | <1720             | <354               | <354               |
| P-3 RE(2-4)     | 06/20/2014     | <371                | <371           | <371                       | <371     | <191                  | <371         | <742                   | <371               | <371             | <371               | <371              | <371                | <1800                      | <1800             | <371               | <371               |
| P-3 (8-10)      | 06/19/2014     | <377                | <377           | <377                       | <377     | <194                  | <377         | <754                   | <377               | <377             | <377               | <377              | <377                | <1830                      | <1830             | <377               | <377               |
| P-4 (5-7)       | 06/19/2014     | <362                | <362           | <362                       | <362     | <187                  | <362         | <724                   | <362               | <362             | <362               | <362              | <362                | <1760                      | <1760             | <362               | <362               |
| P-5 (2-4)       | 06/20/2014     | <344                | <344           | <344                       | <344     | <177                  | <344         | <687                   | <344               | <344             | <344               | <344              | <344                | <1670                      | <1670             | <344               | <344               |
| P-6 (2-4)       | 06/20/2014     | <349                | <349           | <349                       | <349     | <180                  | <349         | <697                   | <349               | <349             | <349               | <349              | <349                | <1690                      | <1690             | <349               | <349               |
| P-7 (5-7)       | 06/19/2014     | <385                | <385           | <385                       | <385     | <198                  | <385         | <769                   | <385               | <385             | <385               | <385              | <385                | <1860                      | <1860             | <385               | <385               |
| P-8 RE(0-2)     | 06/20/2014     | <374                | <374           | <374                       | <374     | <193                  | <374         | <748                   | <374               | <374             | <374               | <374              | <374                | <1810                      | <1810             | <374               | <374               |
| P-8 (6-8)       | 06/19/2014     | <364                | <364           | <364                       | <364     | <187                  | <364         | <728                   | <364               | <364             | <364               | <364              | <364                | <1760                      | <1760             | <364               | <364               |
| P-9 (2-4)       | 06/19/2014     | <404                | <404           | <404                       | <404     | <208                  | <404         | <809                   | <404               | <404             | <404               | <404              | <404                | <1960                      | <1960             | <404               | <404               |
| Surf-Dupe (P-9) | 06/19/2014     | <402                | <402           | <402                       | <402     | <207                  | <402         | <804                   | <402               | <402             | <402               | <402              | <402                | <1950                      | <1950             | <402               | <402               |
| P-10 (2-4)      | 06/23/2014     | <366                | <366           | <366                       | <366     | <189                  | <366         | <732                   | <366               | <366             | <366               | <366              | <366                | <1770                      | <1770             | <366               | <366               |
| TMW-1 (1-3)     | 06/23/2014     | <341                | <341           | <341                       | <341     | <176                  | <341         | <683                   | <341               | <341             | <341               | <341              | <341                | <1660                      | <1660             | <341               | <341               |
| TMW-2 (3-5)     | 06/23/2014     | <348                | <348           | <348                       | <348     | <179                  | <348         | <696                   | <348               | <348             | <348               | <348              | <348                | <1690                      | <1690             | <348               | <348               |
| TMW-3 (8-9)     | 06/19/2014     | <345                | <345           | <345                       | <345     | <178                  | <345         | <690                   | <345               | <345             | <345               | <345              | <345                | <1670                      | <1670             | <345               | <345               |
| TMW-4 (5-7)     | 06/20/2014     | <343                | <343           | <343                       | <343     | <177                  | <343         | <686                   | <343               | <343             | <343               | <343              | <343                | <1660                      | <1660             | <343               | <343               |
| TMW-5 (2-4)     | 06/20/2014     | <349                | <349           | <349                       | <349     | <180                  | <349         | <699                   | <349               | <349             | <349               | <349              | <349                | <1690                      | <1690             | <349               | <349               |
| TMW-6 (2-4)     | 06/20/2014     | <376                | <376           | <376                       | <376     | <194                  | <376         | <752                   | <376               | <376             | <376               | <376              | <376                | <1820                      | <1820             | <376               | <376               |
| TMW-7 (8-10)    | 06/19/2014     | <389                | <389           | <389                       | <389     | <201                  | <389         | <779                   | <389               | <389             | <389               | <389              | <389                | <1890                      | <1890             | <389               | <389               |
| TMW-8 (1-3)     | 06/23/2014     | <1870               | <1870          | <1870                      | <1870    | <961                  | <1870        | <3730                  | <1870              | <1870            | <1870              | <1870             | <1870               | <9040                      | <9040             | <1870              | <1870              |
| TMW-9 (3-5)     | 06/19/2014     | <393                | <393           | <393                       | <393     | <202                  | <393         | <785                   | <393               | <393             | <393               | <393              | <393                | <1900                      | <1900             | <393               | <393               |
| TMW-10 (3-5)    | 06/23/2014     | <357                | <357           | <357                       | <357     | <184                  | <357         | <715                   | <357               | <357             | <357               | <357              | <357                | <1730                      | <1730             | <357               | <357               |

|                               |           |         |     |           |        |         |         |         |           |          |     |           |       |         |         |        |
|-------------------------------|-----------|---------|-----|-----------|--------|---------|---------|---------|-----------|----------|-----|-----------|-------|---------|---------|--------|
| <b>Residential Soil MTG</b>   | 57000     | 1200    | --- | 210000    | 2200   | 2100    | 140     | 830     | 90000     | 6400     | --- | 34000     | 41    | 670     | 54      | 12     |
| <b>Residential Direct</b>     | 8800000   | 550000  | --- | 210000    | 210    | 110000  | 15000   | 250000  | 69000000  | 1700000  | --- | 8500000   | 6900  | 170000  | 22000   | 4600   |
| <b>Comm/Industrial Direct</b> | 82000000  | 5100000 | --- | 2100000   | 2100   | 1000000 | 38000   | 1800000 | 100000000 | 12000000 | --- | 62000000  | 49000 | 1200000 | 55000   | 12000  |
| <b>Excavation Direct</b>      | 100000000 | 8600000 | --- | 100000000 | 130000 | 1700000 | 2200000 | 3100000 | 100000000 | 20000000 | --- | 100000000 | 82000 | 2000000 | 2000000 | 310000 |

**Table 2-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | Di-n-octylphthalate | bis(2-Ethylhexyl)phthalate | Fluoranthene | Fluorene | Hexachloro-1,3-butadiene | Hexachlorobenzene | Hexachlorocyclopentadiene | Hexachloroethane | Indeno(1,2,3-cd)pyrene | Isophorone | 2-Methylnaphthalene | 2-Methylphenol(o-Cresol) | 3&4-Methylphenol(m&p Cresol) | Naphthalene | 2-Nitroaniline | 3-Nitroaniline |
|-----------------|----------------|---------------------|----------------------------|--------------|----------|--------------------------|-------------------|---------------------------|------------------|------------------------|------------|---------------------|--------------------------|------------------------------|-------------|----------------|----------------|
|                 |                | Units:              | µg/kg                      | µg/kg        | µg/kg    | µg/kg                    | µg/kg             | µg/kg                     | µg/kg            | µg/kg                  | µg/kg      | µg/kg               | µg/kg                    | µg/kg                        | µg/kg       | µg/kg          | µg/kg          |
| P-1 (1-3)       | 06/23/2014     | <341                | <341                       | <341         | <341     | <5.3                     | <341              | <341                      | <341             | <341                   | <341       | <341                | <341                     | <682                         | <5.3        | <1650          | <1650          |
| P-2 (1-3)       | 06/23/2014     | <354                | <354                       | <354         | <354     | <4.4                     | <354              | <354                      | <354             | <354                   | <354       | <354                | <354                     | <708                         | <4.4        | <1720          | <1720          |
| P-3 RE(2-4)     | 06/20/2014     | <371                | <371                       | <371         | <371     | <371                     | <371              | <371                      | <371             | <371                   | <371       | <371                | <371                     | <742                         | <371        | <1800          | <1800          |
| P-3 (8-10)      | 06/19/2014     | <377                | <377                       | <377         | <377     | <5.1                     | <377              | <377                      | <377             | <377                   | <377       | <377                | <377                     | <754                         | <5.1        | <1830          | <1830          |
| P-4 (5-7)       | 06/19/2014     | <362                | <362                       | <362         | <362     | <4.9                     | <362              | <362                      | <362             | <362                   | <362       | <362                | <362                     | <724                         | <4.9        | <1760          | <1760          |
| P-5 (2-4)       | 06/20/2014     | <344                | <344                       | <344         | <344     | <4.7                     | <344              | <344                      | <344             | <344                   | <344       | <344                | <344                     | <687                         | <4.7        | <1670          | <1670          |
| P-6 (2-4)       | 06/20/2014     | <349                | <349                       | <349         | <349     | <4.9                     | <349              | <349                      | <349             | <349                   | <349       | <349                | <349                     | <697                         | <4.9        | <1690          | <1690          |
| P-7 (5-7)       | 06/19/2014     | <385                | <385                       | <385         | <385     | <4.9                     | <385              | <385                      | <385             | <385                   | <385       | <385                | <385                     | <769                         | <4.9        | <1860          | <1860          |
| P-8 RE(0-2)     | 06/20/2014     | <374                | <374                       | <374         | <374     | <374                     | <374              | <374                      | <374             | <374                   | <374       | 1220                | 504                      | <748                         | <b>3120</b> | <1810          | <1810          |
| P-8 (6-8)       | 06/19/2014     | <364                | <364                       | <364         | <364     | <5.8                     | <364              | <364                      | <364             | <364                   | <364       | <364                | <364                     | <728                         | <5.8        | <1760          | <1760          |
| P-9 (2-4)       | 06/19/2014     | <404                | <404                       | <404         | <404     | <5.3                     | <404              | <404                      | <404             | <404                   | <404       | <404                | <404                     | <809                         | <5.3        | <1960          | <1960          |
| Surf-Dupe (P-9) | 06/19/2014     | <402                | <402                       | <402         | <402     | <402                     | <402              | <402                      | <402             | <402                   | <402       | <402                | <402                     | <804                         | <402        | <1950          | <1950          |
| P-10 (2-4)      | 06/23/2014     | <366                | <366                       | <366         | <366     | <366                     | <366              | <366                      | <366             | <366                   | <366       | <366                | <366                     | <732                         | <366        | <1770          | <1770          |
| TMW-1 (1-3)     | 06/23/2014     | <341                | <341                       | <341         | <341     | <5.2                     | <341              | <341                      | <341             | <341                   | <341       | <341                | <341                     | <683                         | <5.2        | <1660          | <1660          |
| TMW-2 (3-5)     | 06/23/2014     | <348                | <348                       | <348         | <348     | <4.6                     | <348              | <348                      | <348             | <348                   | <348       | <348                | <348                     | <696                         | <4.6        | <1690          | <1690          |
| TMW-3 (8-9)     | 06/19/2014     | <345                | <345                       | <345         | <345     | <4.8                     | <345              | <345                      | <345             | <345                   | <345       | <345                | <345                     | <690                         | <4.8        | <1670          | <1670          |
| TMW-4 (5-7)     | 06/20/2014     | <343                | <343                       | <343         | <343     | <4.7                     | <343              | <343                      | <343             | <343                   | <343       | <343                | <343                     | <686                         | <4.7        | <1660          | <1660          |
| TMW-5 (2-4)     | 06/20/2014     | <349                | <349                       | <349         | <349     | <5.9                     | <349              | <349                      | <349             | <349                   | <349       | <349                | <349                     | <699                         | <5.9        | <1690          | <1690          |
| TMW-6 (2-4)     | 06/20/2014     | <376                | <376                       | <376         | <376     | <5.9                     | <376              | <376                      | <376             | <376                   | <376       | <376                | <376                     | <752                         | <5.9        | <1820          | <1820          |
| TMW-7 (8-10)    | 06/19/2014     | <389                | <389                       | <389         | <389     | <5.4                     | <389              | <389                      | <389             | <389                   | <389       | <389                | <389                     | <779                         | <5.4        | <1890          | <1890          |
| TMW-8 (1-3)     | 06/23/2014     | <1870               | <1870                      | <1870        | <1870    | <1870                    | <1870             | <1870                     | <1870            | <1870                  | <1870      | <1870               | <1870                    | <3730                        | <1870       | <9040          | <9040          |
| TMW-9 (3-5)     | 06/19/2014     | <393                | <393                       | <393         | <393     | <4.9                     | <393              | <393                      | <393             | <393                   | <393       | <393                | <393                     | <785                         | <4.9        | <1900          | <1900          |
| TMW-10 (3-5)    | 06/23/2014     | <357                | <357                       | <357         | <357     | <4.5                     | <357              | <357                      | <357             | <357                   | <357       | <357                | <357                     | <715                         | <4.5        | <1730          | <1730          |

|                               |          |          |          |          |         |        |         |        |         |           |         |          |          |         |         |     |
|-------------------------------|----------|----------|----------|----------|---------|--------|---------|--------|---------|-----------|---------|----------|----------|---------|---------|-----|
| <b>Residential Soil MTG</b>   | 900000   | 29000    | 1400000  | 81000    | 100     | 250    | 3100    | 62     | 40000   | 4400      | 2800    | 12000    | 12000    | 92      | 1300    | --- |
| <b>Residential Direct</b>     | 850000   | 490000   | 3200000  | 3200000  | 85000   | 4200   | 520000  | 60000  | 2100    | 7100000   | 320000  | 4300000  | 4300000  | 50000   | 850000  | --- |
| <b>Comm/Industrial Direct</b> | 6200000  | 1200000  | 22000000 | 22000000 | 220000  | 11000  | 3700000 | 430000 | 21000   | 18000000  | 2200000 | 31000000 | 31000000 | 180000  | 6000000 | --- |
| <b>Excavation Direct</b>      | 10000000 | 20000000 | 37000000 | 37000000 | 1000000 | 630000 | 6200000 | 730000 | 1300000 | 100000000 | 3700000 | 52000000 | 52000000 | 1000000 | 9900000 | --- |

**Table 2-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | 4-Nitroaniline | Nitrobenzene | 2-Nitrophenol | 4-Nitrophenol | N-Nitroso-di-n-propylamine | N-Nitrosodiphenylamine | Pentachlorophenol | Phenanthrene | Phenol | Pyrene | 2,4,5-Trichlorophenol | 2,4,6-Trichlorophenol | Percent Moisture |
|-----------------|----------------|----------------|--------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------|--------|--------|-----------------------|-----------------------|------------------|
| Units:          |                | µg/kg          | µg/kg        | µg/kg         | µg/kg         | µg/kg                      | µg/kg                  | µg/kg             | µg/kg        | µg/kg  | µg/kg  | µg/kg                 | µg/kg                 | %                |
| P-1 (1-3)       | 06/23/2014     | <1650          | <341         | <341          | <1650         | <341                       | <341                   | <1650             | <341         | <341   | <341   | <341                  | <341                  | 4.2              |
| P-2 (1-3)       | 06/23/2014     | <1720          | <354         | <354          | <1720         | <354                       | <354                   | <1720             | <354         | <354   | <354   | <354                  | <354                  | 8.0              |
| P-3 RE(2-4)     | 06/20/2014     | <1800          | <371         | <371          | <1800         | <371                       | <371                   | <1800             | 572          | <371   | <371   | <371                  | <371                  | 12.2             |
| P-3 (8-10)      | 06/19/2014     | <1830          | <377         | <377          | <1830         | <377                       | <377                   | <1830             | <377         | <377   | <377   | <377                  | <377                  | 13.3             |
| P-4 (5-7)       | 06/19/2014     | <1760          | <362         | <362          | <1760         | <362                       | <362                   | <1760             | <362         | <362   | <362   | <362                  | <362                  | 9.2              |
| P-5 (2-4)       | 06/20/2014     | <1670          | <344         | <344          | <1670         | <344                       | <344                   | <1670             | <344         | <344   | <344   | <344                  | <344                  | 4.3              |
| P-6 (2-4)       | 06/20/2014     | <1690          | <349         | <349          | <1690         | <349                       | <349                   | <1690             | <349         | <349   | <349   | <349                  | <349                  | 6.3              |
| P-7 (5-7)       | 06/19/2014     | <1860          | <385         | <385          | <1860         | <385                       | <385                   | <1860             | <385         | <385   | <385   | <385                  | <385                  | 14.5             |
| P-8 RE(0-2)     | 06/20/2014     | <1810          | <374         | <374          | <1810         | <374                       | <374                   | <1810             | 710          | 1960   | <374   | <374                  | <374                  | 12.7             |
| P-8 (6-8)       | 06/19/2014     | <1760          | <364         | <364          | <1760         | <364                       | <364                   | <1760             | <364         | <364   | <364   | <364                  | <364                  | 9.9              |
| P-9 (2-4)       | 06/19/2014     | <1960          | <404         | <404          | <1960         | <404                       | <404                   | <1960             | <404         | <404   | <404   | <404                  | <404                  | 18.7             |
| Surf-Dupe (P-9) | 06/19/2014     | <1950          | <402         | <402          | <1950         | <402                       | <402                   | <1950             | <402         | <402   | <402   | <402                  | <402                  | 18.0             |
| P-10 (2-4)      | 06/23/2014     | <1770          | <366         | <366          | <1770         | <366                       | <366                   | <1770             | <366         | <366   | <366   | <366                  | <366                  | 10.1             |
| TMW-1 (1-3)     | 06/23/2014     | <1660          | <341         | <341          | <1660         | <341                       | <341                   | <1660             | <341         | <341   | <341   | <341                  | <341                  | 4.0              |
| TMW-2 (3-5)     | 06/23/2014     | <1690          | <348         | <348          | <1690         | <348                       | <348                   | <1690             | <348         | <348   | <348   | <348                  | <348                  | 6.4              |
| TMW-3 (8-9)     | 06/19/2014     | <1670          | <345         | <345          | <1670         | <345                       | <345                   | <1670             | <345         | <345   | <345   | <345                  | <345                  | 5.6              |
| TMW-4 (5-7)     | 06/20/2014     | <1660          | <343         | <343          | <1660         | <343                       | <343                   | <1660             | <343         | <343   | <343   | <343                  | <343                  | 4.4              |
| TMW-5 (2-4)     | 06/20/2014     | <1690          | <349         | <349          | <1690         | <349                       | <349                   | <1690             | <349         | <349   | <349   | <349                  | <349                  | 5.8              |
| TMW-6 (2-4)     | 06/20/2014     | <1820          | <376         | <376          | <1820         | <376                       | <376                   | <1820             | <376         | <376   | <376   | <376                  | <376                  | 12.9             |
| TMW-7 (8-10)    | 06/19/2014     | <1890          | <389         | <389          | <1890         | <389                       | <389                   | <1890             | <389         | <389   | <389   | <389                  | <389                  | 15.5             |
| TMW-8 (1-3)     | 06/23/2014     | <9040          | <1870        | <1870         | <9040         | <1870                      | <1870                  | <9040             | <1870        | <1870  | <1870  | <1870                 | <1870                 | 12.7             |
| TMW-9 (3-5)     | 06/19/2014     | <1900          | <393         | <393          | <1900         | <393                       | <393                   | <1900             | <393         | <393   | <393   | <393                  | <393                  | 17.0             |
| TMW-10 (3-5)    | 06/23/2014     | <1730          | <357         | <357          | <1730         | <357                       | <357                   | <1730             | <357         | <357   | <357   | <357                  | <357                  | 8.2              |

|                               |         |         |     |     |        |           |         |     |           |          |           |         |
|-------------------------------|---------|---------|-----|-----|--------|-----------|---------|-----|-----------|----------|-----------|---------|
| <b>Residential Soil MTG</b>   | 280     | 16      | --- | --- | 1.4    | 11000     | 200     | --- | 52000     | 190000   | 67000     | 680     |
| <b>Residential Direct</b>     | 340000  | 67000   | --- | --- | 970    | 1400000   | 12000   | --- | 25000000  | 2400000  | 8500000   | 85000   |
| <b>Comm/Industrial Direct</b> | 860000  | 240000  | --- | --- | 2500   | 3500000   | 27000   | --- | 100000000 | 17000000 | 62000000  | 620000  |
| <b>Excavation Direct</b>      | 4200000 | 2000000 | --- | --- | 140000 | 100000000 | 2000000 | --- | 100000000 | 28000000 | 100000000 | 1000000 |

**Table 2-C**  
**Polychlorinated Biphenyl (PCB) Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | Aroclor 1016 | Aroclor 1221 | Aroclor 1232 | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | Percent Moisture |
|-----------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|
| Units:          |                | µg/kg        | µg/kg        | µg/kg        | µg/kg        | µg/kg        | µg/kg        | µg/kg        | %                |
| P-1 (1-3)       | 06/23/2014     | <104         | <104         | <104         | <104         | <104         | <104         | <104         | 4.2              |
| P-2 (1-3)       | 06/23/2014     | <109         | <109         | <109         | <109         | <109         | <109         | <109         | 8.0              |
| P-3 RE(2-4)     | 06/20/2014     | <113         | <113         | <113         | <113         | <113         | <113         | <113         | 12.2             |
| P-3 (8-10)      | 06/19/2014     | <115         | <115         | <115         | <115         | <115         | <115         | <115         | 13.3             |
| P-4 (5-7)       | 06/19/2014     | <110         | <110         | <110         | <110         | <110         | <110         | <110         | 9.2              |
| P-5 (2-4)       | 06/20/2014     | <104         | <104         | <104         | <104         | <104         | <104         | <104         | 4.3              |
| P-6 (2-4)       | 06/20/2014     | <105         | <105         | <105         | <105         | <105         | <105         | <105         | 6.3              |
| P-7 (5-7)       | 06/19/2014     | <116         | <116         | <116         | <116         | <116         | <116         | <116         | 14.5             |
| P-8 RE(0-2)     | 06/20/2014     | <1130        | <1130        | <1130        | <1130        | <1130        | <1130        | <1130        | 12.7             |
| P-8 (6-8)       | 06/19/2014     | <111         | <111         | <111         | <111         | <111         | <111         | <111         | 9.9              |
| P-9 (2-4)       | 06/19/2014     | <123         | <123         | <123         | <123         | <123         | <123         | <123         | 18.7             |
| Surf-Dupe (P-9) | 06/19/2014     | <121         | <121         | <121         | <121         | <121         | <121         | <121         | 18.0             |
| P-10 (2-4)      | 06/23/2014     | <110         | <110         | <110         | <110         | <110         | <110         | <110         | 10.1             |
| TMW-1 (1-3)     | 06/23/2014     | <103         | <103         | <103         | <103         | <103         | <103         | <103         | 4.0              |
| TMW-2 (3-5)     | 06/23/2014     | <106         | <106         | <106         | <106         | <106         | <106         | <106         | 6.4              |
| TMW-3 (8-9)     | 06/19/2014     | <106         | <106         | <106         | <106         | <106         | <106         | <106         | 5.6              |
| TMW-4 (5-7)     | 06/20/2014     | <104         | <104         | <104         | <104         | <104         | <104         | <104         | 4.4              |
| TMW-5 (2-4)     | 06/20/2014     | <106         | <106         | <106         | <106         | <106         | <106         | <106         | 5.8              |
| TMW-6 (2-4)     | 06/20/2014     | <115         | <115         | <115         | <115         | <115         | <115         | <115         | 12.9             |
| TMW-7 (8-10)    | 06/19/2014     | <118         | <118         | <118         | <118         | <118         | <118         | <118         | 15.5             |
| TMW-8 (1-3)     | 06/23/2014     | <113         | <113         | <113         | <113         | <113         | <113         | <113         | 12.7             |
| TMW-9 (3-5)     | 06/19/2014     | <120         | <120         | <120         | <120         | <120         | <120         | <120         | 17.0             |
| TMW-10 (3-5)    | 06/23/2014     | <109         | <109         | <109         | <109         | <109         | <109         | <109         | 8.2              |

|                               |       |        |       |        |        |       |        |
|-------------------------------|-------|--------|-------|--------|--------|-------|--------|
| <b>Residential Soil MTG</b>   | 2100  | 14     | 14    | 1100   | 1000   | 1600  | 4800   |
| <b>Residential Direct</b>     | 5500  | 2000   | 2000  | 3100   | 3100   | 1500  | 3100   |
| <b>Comm/Industrial Direct</b> | 37000 | 5400   | 54000 | 7400   | 7400   | 7400  | 7400   |
| <b>Excavation Direct</b>      | 63000 | 390000 | 73000 | 460000 | 460000 | 18000 | 460000 |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

N/A N/A entries indicate that the sample was not analyzed for a particular constituent.  
 24.1 Detected, no SL exceedance  
**24.1** Exceeds Residential Direct SL OR Residential Soil MTG SL, whichever is lower  
**24.1** Exceeds Commercial/Industrial Direct SL  
**24.1** Exceeds Excavation Direct SL

**Table 2-D**  
**Total Metal Concentrations in Surface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID       | Date Collected | Antimony | Arsenic | Chromium (Total) | Chromium (Hexavalent) | Cobalt | Iron   | Lead  | Selenium | Thallium | Percent Moisture |
|-----------------|----------------|----------|---------|------------------|-----------------------|--------|--------|-------|----------|----------|------------------|
| Units:          |                | mg/kg    | mg/kg   | mg/kg            | mg/kg                 | mg/kg  | mg/kg  | mg/kg | mg/kg    | mg/kg    | %                |
| P-1 (1-3)       | 06/23/2014     | 7.9      | 48.4    | 45.1             | <2.0                  | 22.9   | 253000 | 97.9  | <19.5    | 1.9      | 4.2              |
| P-2 (1-3)       | 06/23/2014     | <0.98    | 2.1     | 5.4              | N/A                   | 2.0    | 5250   | 3.4   | <0.98    | 2.5      | 8.0              |
| P-3 RE(2-4)     | 06/20/2014     | <1.1     | 22.0    | 15.8             | N/A                   | 4.3    | 56100  | 37.8  | <1.1     | 5.4      | 12.2             |
| P-3 (8-10)      | 06/19/2014     | <1.0     | 8.9     | 8.0              | N/A                   | 3.4    | 18100  | 16.7  | <1.0     | 2.9      | 13.3             |
| P-4 (5-7)       | 06/19/2014     | <1.0     | 4.0     | 9.4              | N/A                   | 3.7    | 11500  | 11.8  | <1.0     | 4.7      | 9.2              |
| P-5 (2-4)       | 06/20/2014     | <0.93    | 2.6     | 6.1              | N/A                   | 2.3    | 6780   | 4.1   | <0.93    | 2.3      | 4.3              |
| P-6 (2-4)       | 06/20/2014     | <0.95    | 1.9     | 5.0              | N/A                   | 2.5    | 5600   | 5.6   | <0.95    | 2.0      | 6.3              |
| P-7 (5-7)       | 06/19/2014     | <1.0     | 3.1     | 3.1              | N/A                   | 1.7    | 5660   | 5.2   | <1.0     | 2.4      | 14.5             |
| P-8 RE(0-2)     | 06/20/2014     | <0.95    | 3.2     | 14.3             | N/A                   | 1.3    | 23100  | 4.1   | <0.95    | <0.95    | 12.7             |
| P-8 (6-8)       | 06/19/2014     | <0.98    | 2.9     | 10.1             | N/A                   | 2.6    | 10900  | 10.7  | <0.98    | 2.2      | 9.9              |
| P-9 (2-4)       | 06/19/2014     | <1.1     | 4.8     | 10.3             | N/A                   | 10.6   | 11500  | 9.0   | <1.1     | 3.3      | 18.7             |
| Surf-Dupe (P-9) | 06/19/2014     | <1.1     | 1.9     | 2.8              | N/A                   | 1.4    | 3480   | 3.2   | <1.1     | 2.1      | 18.0             |
| P-10 (2-4)      | 06/23/2014     | <1.1     | 2.0     | 7.4              | N/A                   | 5.3    | 7180   | 5.5   | <1.1     | 2.3      | 10.1             |
| TMW-1 (1-3)     | 06/23/2014     | <0.87    | 2.3     | 4.7              | N/A                   | 2.2    | 10100  | 3.8   | <0.87    | 1.9      | 4.0              |
| TMW-2 (3-5)     | 06/23/2014     | <0.98    | 1.8     | 7.0              | N/A                   | 2.3    | 6730   | 5.8   | <0.98    | 6.3      | 6.4              |
| TMW-3 (8-9)     | 06/19/2014     | <0.96    | 1.5     | 2.3              | N/A                   | <0.96  | 3250   | 2.6   | <0.96    | 1.3      | 5.6              |
| TMW-4 (5-7)     | 06/20/2014     | <1.0     | 4.0     | 6.7              | N/A                   | 2.2    | 7150   | 4.5   | <1.0     | 2.3      | 4.4              |
| TMW-5 (2-4)     | 06/20/2014     | <1.1     | 2.5     | 9.1              | N/A                   | 2.7    | 9120   | 9.4   | <1.1     | 2.9      | 5.8              |
| TMW-6 (2-4)     | 06/20/2014     | <1.1     | 6.3     | 27.5             | N/A                   | 4.6    | 32700  | 127   | <1.1     | 2.3      | 12.9             |
| TMW-7 (8-10)    | 06/19/2014     | <1.1     | 1.5     | 2.0              | N/A                   | 1.4    | 2770   | 1.9   | <1.1     | 1.4      | 15.5             |
| TMW-8 (1-3)     | 06/23/2014     | 1.2      | 24.2    | 28.7             | <2.3                  | 7.9    | 90000  | 21.8  | <1.1     | 3.1      | 12.7             |
| TMW-9 (3-5)     | 06/19/2014     | <1.0     | 2.3     | 2.8              | N/A                   | 1.6    | 4000   | 4.4   | <1.0     | 1.7      | 17.0             |
| TMW-10 (3-5)    | 06/23/2014     | <1.0     | 4.1     | 9.4              | N/A                   | 2.8    | 10300  | 5.9   | <1.0     | 3.2      | 8.2              |

|                        |     |     |         |      |     |        |      |      |     |
|------------------------|-----|-----|---------|------|-----|--------|------|------|-----|
| Residential Soil MTG   | 5.4 | 5.9 | 1000000 | 0.12 | 4.3 | 5600   | 270  | 5.3  | 2.9 |
| Residential Direct     | 43  | 8.5 | ---     | 4.1  | 32  | 77000  | 400  | 550  | 1.1 |
| Comm/Industrial Direct | 410 | 24  | ---     | 56   | 300 | 100000 | 800  | 5100 | 10  |
| Excavation Direct      | 690 | 640 | ---     | 2400 | 520 | 100000 | 1000 | 8600 | 17  |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

- N/A N/A entries indicate that the sample was not analyzed for a particular constituent.
- 24.1 Detected, no SL exceedance
- 24.1 Exceeds Residential Direct SL OR Residential Soil MTG SL, whichever is lower
- 24.1 Exceeds Commercial/Industrial Direct SL
- 24.1 Exceeds Excavation Direct SL

**Table 3-A**  
**Volatile Organic Compound (VOC) Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID      | Date Collected | Acetone | Acrolein | Acrylonitrile | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | 2-Butanone (MEK) | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Carbon disulfide | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform |
|----------------|----------------|---------|----------|---------------|---------|--------------|--------------------|----------------------|-----------|--------------|------------------|----------------|------------------|-------------------|------------------|----------------------|---------------|--------------|------------|
|                |                | Units:  | µg/kg    | µg/kg         | µg/kg   | µg/kg        | µg/kg              | µg/kg                | µg/kg     | µg/kg        | µg/kg            | µg/kg          | µg/kg            | µg/kg             | µg/kg            | µg/kg                | µg/kg         | µg/kg        | µg/kg      |
| P-1 (18-20)    | 06/23/2014     | <101    | <101     | <101          | <5.1    | <5.1         | <5.1               | <5.1                 | <5.1      | <5.1         | <25.3            | <5.1           | <5.1             | <5.1              | <10.1            | <5.1                 | <5.1          | <5.1         | <5.1       |
| P-2 (18-20)    | 06/23/2014     | <87.1   | <87.1    | <87.1         | <4.4    | <4.4         | <4.4               | <4.4                 | <4.4      | <4.4         | <21.8            | <4.4           | <4.4             | <4.4              | <8.7             | <4.4                 | <4.4          | <4.4         | <4.4       |
| P-3 (16-18)    | 06/19/2014     | <94.0   | <94.0    | <94.0         | <4.7    | <4.7         | <4.7               | <4.7                 | <4.7      | <4.7         | <23.5            | <4.7           | <4.7             | <4.7              | <9.4             | <4.7                 | <4.7          | <4.7         | <4.7       |
| P-4 (16-18)    | 06/19/2014     | <95.2   | <95.2    | <95.2         | <4.8    | <4.8         | <4.8               | <4.8                 | <4.8      | <4.8         | <23.8            | <4.8           | <4.8             | <4.8              | <9.5             | <4.8                 | <4.8          | <4.8         | <4.8       |
| P-5 (10-12)    | 06/20/2014     | <98.1   | <98.1    | <98.1         | <4.9    | <4.9         | <4.9               | <4.9                 | <4.9      | <4.9         | <24.5            | <4.9           | <4.9             | <4.9              | <9.8             | <4.9                 | <4.9          | <4.9         | <4.9       |
| P-6 (10-12)    | 06/20/2014     | <97.7   | <97.7    | <97.7         | <4.9    | <4.9         | <4.9               | <4.9                 | <4.9      | <4.9         | <24.4            | <4.9           | <4.9             | <4.9              | <9.8             | <4.9                 | <4.9          | <4.9         | <4.9       |
| P-7 (13-15)    | 06/19/2014     | <109    | <109     | <109          | <5.5    | <5.5         | <5.5               | <5.5                 | <5.5      | <5.5         | <27.3            | <5.5           | <5.5             | <5.5              | <10.9            | <5.5                 | <5.5          | <5.5         | <5.5       |
| P-8 (16-18)    | 06/19/2014     | <98.1   | <98.1    | <98.1         | <4.9    | <4.9         | <4.9               | <4.9                 | <4.9      | <4.9         | <24.5            | <4.9           | <4.9             | <4.9              | <9.8             | <4.9                 | <4.9          | <4.9         | <4.9       |
| P-9 (13-15)    | 06/19/2014     | <97.3   | <97.3    | <97.3         | <4.9    | <4.9         | <4.9               | <4.9                 | <4.9      | <4.9         | <24.3            | <4.9           | <4.9             | <4.9              | <9.7             | <4.9                 | <4.9          | <4.9         | <4.9       |
| P-10 (12-14)   | 06/23/2014     | <95.0   | <95.0    | <95.0         | <4.7    | <4.7         | <4.7               | <4.7                 | <4.7      | <4.7         | <23.7            | <4.7           | <4.7             | <4.7              | <9.5             | <4.7                 | <4.7          | <4.7         | <4.7       |
| TMW-1 (11-13)  | 06/23/2014     | <107    | <107     | <107          | <5.3    | <5.3         | <5.3               | <5.3                 | <5.3      | <5.3         | <26.7            | <5.3           | <5.3             | <5.3              | <10.7            | <5.3                 | <5.3          | <5.3         | <5.3       |
| TMW-2 (13-15)  | 06/23/2014     | <117    | <117     | <117          | <5.9    | <5.9         | <5.9               | <5.9                 | <5.9      | <5.9         | <29.3            | <5.9           | <5.9             | <5.9              | <11.7            | <5.9                 | <5.9          | <5.9         | <5.9       |
| TMW-3 (15-16)  | 06/19/2014     | <99.6   | <99.6    | <99.6         | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <24.9            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-4 (14-16)  | 06/20/2014     | <111    | <111     | <111          | <5.6    | <5.6         | <5.6               | <5.6                 | <5.6      | <5.6         | <27.8            | <5.6           | <5.6             | <5.6              | <11.1            | <5.6                 | <5.6          | <5.6         | <5.6       |
| TMW-5 (12-14)  | 06/20/2014     | <102    | <102     | <102          | <5.1    | <5.1         | <5.1               | <5.1                 | <5.1      | <5.1         | <25.4            | <5.1           | <5.1             | <5.1              | <10.2            | <5.1                 | <5.1          | <5.1         | <5.1       |
| TMW-6 (14-16)  | 06/20/2014     | <80.7   | <80.7    | <80.7         | <4.0    | <4.0         | <4.0               | <4.0                 | <4.0      | <4.0         | <20.2            | <4.0           | <4.0             | <4.0              | <8.1             | <4.0                 | <4.0          | <4.0         | <4.0       |
| TMW-7 (14-16)  | 06/19/2014     | <103    | <103     | <103          | <5.2    | <5.2         | <5.2               | <5.2                 | <5.2      | <5.2         | <25.8            | <5.2           | <5.2             | <5.2              | <10.3            | <5.2                 | <5.2          | <5.2         | <5.2       |
| TMW-8 (10-12)  | 06/23/2014     | <105    | <105     | <105          | <5.3    | <5.3         | <5.3               | <5.3                 | <5.3      | <5.3         | <26.4            | <5.3           | <5.3             | <5.3              | <10.5            | <5.3                 | <5.3          | <5.3         | <5.3       |
| Dupe (TMW-8)   | 06/23/2014     | <104    | <104     | <104          | <5.2    | <5.2         | <5.2               | <5.2                 | <5.2      | <5.2         | <25.9            | <5.2           | <5.2             | <5.2              | <10.4            | <5.2                 | <5.2          | <5.2         | <5.2       |
| TMW-9 (16-18)  | 06/19/2014     | <95.3   | <95.3    | <95.3         | <4.8    | <4.8         | <4.8               | <4.8                 | <4.8      | <4.8         | <23.8            | <4.8           | <4.8             | <4.8              | <9.5             | <4.8                 | <4.8          | <4.8         | <4.8       |
| TMW-10 (10-12) | 06/23/2014     | <92.1   | <92.1    | <92.1         | <4.6    | <4.6         | <4.6               | <4.6                 | <4.6      | <4.6         | <23.0            | <4.6           | <4.6             | <4.6              | <9.2             | <4.6                 | <4.6          | <4.6         | <4.6       |

|                               |          |      |        |        |        |         |        |          |       |          |        |        |        |        |        |        |         |         |
|-------------------------------|----------|------|--------|--------|--------|---------|--------|----------|-------|----------|--------|--------|--------|--------|--------|--------|---------|---------|
| <b>Residential Soil MTG</b>   | 49000    | 0.17 | 2      | 51     | 730    | 410     | 430    | 420      | 35    | 21000    | 50000  | 94000  | 23000  | 4200   | 39     | 1400   | 120000  | 440     |
| <b>Residential Direct</b>     | 85000000 | 210  | 3400   | 15000  | 420000 | 220000  | 3800   | 870000   | 10000 | 28000000 | 110000 | 150000 | 180000 | 740000 | 8500   | 410000 | 2100000 | 4100    |
| <b>Comm/Industrial Direct</b> | 1E+08    | 650  | 12000  | 54000  | 680000 | 680000  | 14000  | 2200000  | 32000 | 28000000 | 110000 | 150000 | 180000 | 740000 | 30000  | 760000 | 2100000 | 15000   |
| <b>Excavation Direct</b>      | 1E+08    | 1100 | 120000 | 750000 | 680000 | 1100000 | 930000 | 20000000 | 54000 | 28000000 | 110000 | 150000 | 180000 | 740000 | 460000 | 760000 | 2100000 | 1800000 |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

N/A N/A entries indicate that the sample was not analyzed for a particular constituent.

24.1 Detected, no SL exceedance

**24.1** Exceeds Residential Direct SL OR Residential Soil MTG SL, whichever is lower

**24.1** Exceeds Commercial/Industrial Direct SL

**24.1** Exceeds Excavation Direct SL



**Table 3-A**  
**Volatile Organic Compound (VOC) Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID      | Date Collected | Chloromethane | 2-Chlorotoluene | 4-Chlorotoluene | Dibromochloromethane | 1,2-Dibromoethane (EDB) | Dibromomethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | trans-1,4-Dichloro-2-butene | Dichlorodifluoromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | 1,3-Dichloropropane |
|----------------|----------------|---------------|-----------------|-----------------|----------------------|-------------------------|----------------|---------------------|---------------------|---------------------|-----------------------------|-------------------------|--------------------|--------------------|--------------------|------------------------|--------------------------|---------------------|---------------------|
|                |                | Units:        | µg/kg           | µg/kg           | µg/kg                | µg/kg                   | µg/kg          | µg/kg               | µg/kg               | µg/kg               | µg/kg                       | µg/kg                   | µg/kg              | µg/kg              | µg/kg              | µg/kg                  | µg/kg                    | µg/kg               | µg/kg               |
| P-1 (18-20)    | 06/23/2014     | <5.1          | <5.1            | <5.1            | <5.1                 | <5.1                    | <5.1           | <5.1                | <5.1                | <5.1                | <101                        | <5.1                    | <5.1               | <5.1               | <5.1               | <5.1                   | <5.1                     | <5.1                | <5.1                |
| P-2 (18-20)    | 06/23/2014     | <4.4          | <4.4            | <4.4            | <4.4                 | <4.4                    | <4.4           | <4.4                | <4.4                | <4.4                | <87.1                       | <4.4                    | <4.4               | <4.4               | <4.4               | <4.4                   | <4.4                     | <4.4                | <4.4                |
| P-3 (16-18)    | 06/19/2014     | <4.7          | <4.7            | <4.7            | <4.7                 | <4.7                    | <4.7           | <4.7                | <4.7                | <4.7                | <94.0                       | <4.7                    | <4.7               | <4.7               | <4.7               | <4.7                   | <4.7                     | <4.7                | <4.7                |
| P-4 (16-18)    | 06/19/2014     | <4.8          | <4.8            | <4.8            | <4.8                 | <4.8                    | <4.8           | <4.8                | <4.8                | <4.8                | <95.2                       | <4.8                    | <4.8               | <4.8               | <4.8               | <4.8                   | <4.8                     | <4.8                | <4.8                |
| P-5 (10-12)    | 06/20/2014     | <4.9          | <4.9            | <4.9            | <4.9                 | <4.9                    | <4.9           | <4.9                | <4.9                | <4.9                | <98.1                       | <4.9                    | <4.9               | <4.9               | <4.9               | <4.9                   | <4.9                     | <4.9                | <4.9                |
| P-6 (10-12)    | 06/20/2014     | <4.9          | <4.9            | <4.9            | <4.9                 | <4.9                    | <4.9           | <4.9                | <4.9                | <4.9                | <97.7                       | <4.9                    | <4.9               | <4.9               | <4.9               | <4.9                   | <4.9                     | <4.9                | <4.9                |
| P-7 (13-15)    | 06/19/2014     | <5.5          | <5.5            | <5.5            | <5.5                 | <5.5                    | <5.5           | <5.5                | <5.5                | <5.5                | <109                        | <5.5                    | <5.5               | <5.5               | <5.5               | <5.5                   | <5.5                     | <5.5                | <5.5                |
| P-8 (16-18)    | 06/19/2014     | <4.9          | <4.9            | <4.9            | <4.9                 | <4.9                    | <4.9           | <4.9                | <4.9                | <4.9                | <98.1                       | <4.9                    | <4.9               | <4.9               | <4.9               | <4.9                   | <4.9                     | <4.9                | <4.9                |
| P-9 (13-15)    | 06/19/2014     | <4.9          | <4.9            | <4.9            | <4.9                 | <4.9                    | <4.9           | <4.9                | <4.9                | <4.9                | <97.3                       | <4.9                    | <4.9               | <4.9               | <4.9               | <4.9                   | <4.9                     | <4.9                | <4.9                |
| P-10 (12-14)   | 06/23/2014     | <4.7          | <4.7            | <4.7            | <4.7                 | <4.7                    | <4.7           | <4.7                | <4.7                | <4.7                | <95.0                       | <4.7                    | <4.7               | <4.7               | <4.7               | <4.7                   | <4.7                     | <4.7                | <4.7                |
| TMW-1 (11-13)  | 06/23/2014     | <5.3          | <5.3            | <5.3            | <5.3                 | <5.3                    | <5.3           | <5.3                | <5.3                | <5.3                | <107                        | <5.3                    | <5.3               | <5.3               | <5.3               | <5.3                   | <5.3                     | <5.3                | <5.3                |
| TMW-2 (13-15)  | 06/23/2014     | <5.9          | <5.9            | <5.9            | <5.9                 | <5.9                    | <5.9           | <5.9                | <5.9                | <5.9                | <117                        | <5.9                    | <5.9               | <5.9               | <5.9               | <5.9                   | <5.9                     | <5.9                | <5.9                |
| TMW-3 (15-16)  | 06/19/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <99.6                       | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-4 (14-16)  | 06/20/2014     | <5.6          | <5.6            | <5.6            | <5.6                 | <5.6                    | <5.6           | <5.6                | <5.6                | <5.6                | <111                        | <5.6                    | <5.6               | <5.6               | <5.6               | <5.6                   | <5.6                     | <5.6                | <5.6                |
| TMW-5 (12-14)  | 06/20/2014     | <5.1          | <5.1            | <5.1            | <5.1                 | <5.1                    | <5.1           | <5.1                | <5.1                | <5.1                | <102                        | <5.1                    | <5.1               | <5.1               | <5.1               | <5.1                   | <5.1                     | <5.1                | <5.1                |
| TMW-6 (14-16)  | 06/20/2014     | <4.0          | <4.0            | <4.0            | <4.0                 | <4.0                    | <4.0           | <4.0                | <4.0                | <4.0                | <80.7                       | <4.0                    | <4.0               | <4.0               | <4.0               | <4.0                   | <4.0                     | <4.0                | <4.0                |
| TMW-7 (14-16)  | 06/19/2014     | <5.2          | <5.2            | <5.2            | <5.2                 | <5.2                    | <5.2           | <5.2                | <5.2                | <5.2                | <103                        | <5.2                    | <5.2               | <5.2               | <5.2               | <5.2                   | <5.2                     | <5.2                | <5.2                |
| TMW-8 (10-12)  | 06/23/2014     | <5.3          | <5.3            | <5.3            | <5.3                 | <5.3                    | <5.3           | <5.3                | <5.3                | <5.3                | <105                        | <5.3                    | <5.3               | <5.3               | <5.3               | <5.3                   | <5.3                     | <5.3                | <5.3                |
| Dupe (TMW-8)   | 06/23/2014     | <5.2          | <5.2            | <5.2            | <5.2                 | <5.2                    | <5.2           | <5.2                | <5.2                | <5.2                | <104                        | <5.2                    | <5.2               | <5.2               | <5.2               | <5.2                   | <5.2                     | <5.2                | <5.2                |
| TMW-9 (16-18)  | 06/19/2014     | <4.8          | <4.8            | <4.8            | <4.8                 | <4.8                    | <4.8           | <4.8                | <4.8                | <4.8                | <95.3                       | <4.8                    | <4.8               | <4.8               | <4.8               | <4.8                   | <4.8                     | <4.8                | <4.8                |
| TMW-10 (10-12) | 06/23/2014     | <4.6          | <4.6            | <4.6            | <4.6                 | <4.6                    | <4.6           | <4.6                | <4.6                | <4.6                | <92.1                       | <4.6                    | <4.6               | <4.6               | <4.6               | <4.6                   | <4.6                     | <4.6                | <4.6                |

|                               |        |        |        |        |        |        |        |     |          |       |        |         |        |         |         |         |        |         |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|-----|----------|-------|--------|---------|--------|---------|---------|---------|--------|---------|
| <b>Residential Soil MTG</b>   | 980    | 3500   | 3700   | 430    | 0.28   | 39     | 12000  | --- | 1400     | 0.11  | 5700   | 140     | 28     | 50      | 410     | 590     | 33     | 2000    |
| <b>Residential Direct</b>     | 170000 | 910000 | 250000 | 9500   | 480    | 35000  | 380000 | --- | 34000    | 97    | 130000 | 46000   | 6000   | 340000  | 220000  | 210000  | 13000  | 1500000 |
| <b>Comm/Industrial Direct</b> | 500000 | 910000 | 250000 | 33000  | 1700   | 110000 | 380000 | --- | 120000   | 350   | 400000 | 170000  | 22000  | 1100000 | 2000000 | 690000  | 47000  | 1500000 |
| <b>Excavation Direct</b>      | 840000 | 910000 | 250000 | 800000 | 180000 | 180000 | 380000 | --- | 17000000 | 49000 | 670000 | 1700000 | 250000 | 1200000 | 2400000 | 1200000 | 120000 | 1500000 |

**Table 3-A**  
**Volatile Organic Compound (VOC) Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID      | Date Collected | 2,2-Dichloropropane | 1,1-Dichloropropene | cis-1,3-Dichloropropene | trans-1,3-Dichloropropene | Ethylbenzene | Ethyl methacrylate | Hexachloro-1,3-butadiene | n-Hexane | 2-Hexanone | Iodomethane | Isopropylbenzene (Cumene) | p-Isopropyltoluene | Methylene Chloride | 4-Methyl-2-pentanone (MIBK) | Methyl-tert-butyl ether | Naphthalene | n-Propylbenzene | Styrene |
|----------------|----------------|---------------------|---------------------|-------------------------|---------------------------|--------------|--------------------|--------------------------|----------|------------|-------------|---------------------------|--------------------|--------------------|-----------------------------|-------------------------|-------------|-----------------|---------|
|                |                | Units:              | µg/kg               | µg/kg                   | µg/kg                     | µg/kg        | µg/kg              | µg/kg                    | µg/kg    | µg/kg      | µg/kg       | µg/kg                     | µg/kg              | µg/kg              | µg/kg                       | µg/kg                   | µg/kg       | µg/kg           | µg/kg   |
| P-1 (18-20)    | 06/23/2014     | <5.1                | <5.1                | <5.1                    | <5.1                      | <5.1         | <101               | <5.1                     | <5.1     | <101       | <101        | <5.1                      | <5.1               | <20.2              | <25.3                       | <5.1                    | <5.1        | <5.1            | <5.1    |
| P-2 (18-20)    | 06/23/2014     | <4.4                | <4.4                | <4.4                    | <4.4                      | <4.4         | <87.1              | <4.4                     | <4.4     | <87.1      | <87.1       | <4.4                      | <4.4               | <17.4              | <21.8                       | <4.4                    | <4.4        | <4.4            | <4.4    |
| P-3 (16-18)    | 06/19/2014     | <4.7                | <4.7                | <4.7                    | <4.7                      | <4.7         | <94.0              | <4.7                     | <4.7     | <94.0      | <94.0       | <4.7                      | <4.7               | <18.8              | <23.5                       | <4.7                    | <4.7        | <4.7            | <4.7    |
| P-4 (16-18)    | 06/19/2014     | <4.8                | <4.8                | <4.8                    | <4.8                      | <4.8         | <95.2              | <4.8                     | <4.8     | <95.2      | <95.2       | <4.8                      | <4.8               | <19.0              | <23.8                       | <4.8                    | <4.8        | <4.8            | <4.8    |
| P-5 (10-12)    | 06/20/2014     | <4.9                | <4.9                | <4.9                    | <4.9                      | <4.9         | <98.1              | <4.9                     | <4.9     | <98.1      | <98.1       | <4.9                      | <4.9               | <19.6              | <24.5                       | <4.9                    | <4.9        | <4.9            | <4.9    |
| P-6 (10-12)    | 06/20/2014     | <4.9                | <4.9                | <4.9                    | <4.9                      | <4.9         | <97.7              | <4.9                     | <4.9     | <97.7      | <97.7       | <4.9                      | <4.9               | <19.5              | <24.4                       | <4.9                    | <4.9        | <4.9            | <4.9    |
| P-7 (13-15)    | 06/19/2014     | <5.5                | <5.5                | <5.5                    | <5.5                      | <5.5         | <109               | <5.5                     | <5.5     | <109       | <109        | <5.5                      | <5.5               | <21.8              | <27.3                       | <5.5                    | <5.5        | <5.5            | <5.5    |
| P-8 (16-18)    | 06/19/2014     | <4.9                | <4.9                | <4.9                    | <4.9                      | <4.9         | <98.1              | <4.9                     | <4.9     | <98.1      | <98.1       | <4.9                      | <4.9               | <19.6              | <24.5                       | <4.9                    | <4.9        | <4.9            | <4.9    |
| P-9 (13-15)    | 06/19/2014     | <4.9                | <4.9                | <4.9                    | <4.9                      | <4.9         | <97.3              | <4.9                     | <4.9     | <97.3      | <97.3       | <4.9                      | <4.9               | <19.5              | <24.3                       | <4.9                    | <4.9        | <4.9            | <4.9    |
| P-10 (12-14)   | 06/23/2014     | <4.7                | <4.7                | <4.7                    | <4.7                      | <4.7         | <95.0              | <4.7                     | <4.7     | <95.0      | <95.0       | <4.7                      | <4.7               | <19.0              | <23.7                       | <4.7                    | <4.7        | <4.7            | <4.7    |
| TMW-1 (11-13)  | 06/23/2014     | <5.3                | <5.3                | <5.3                    | <5.3                      | <5.3         | <107               | <5.3                     | <5.3     | <107       | <107        | <5.3                      | <5.3               | <21.4              | <26.7                       | <5.3                    | <5.3        | <5.3            | <5.3    |
| TMW-2 (13-15)  | 06/23/2014     | <5.9                | <5.9                | <5.9                    | <5.9                      | <5.9         | <117               | <5.9                     | <5.9     | <117       | <117        | <5.9                      | <5.9               | <23.4              | <29.3                       | <5.9                    | <5.9        | <5.9            | <5.9    |
| TMW-3 (15-16)  | 06/19/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <99.6              | <5.0                     | <5.0     | <99.6      | <99.6       | <5.0                      | <5.0               | <19.9              | <24.9                       | <5.0                    | <5.0        | <5.0            | <5.0    |
| TMW-4 (14-16)  | 06/20/2014     | <5.6                | <5.6                | <5.6                    | <5.6                      | <5.6         | <111               | <5.6                     | <5.6     | <111       | <111        | <5.6                      | <5.6               | <22.2              | <27.8                       | <5.6                    | <5.6        | <5.6            | <5.6    |
| TMW-5 (12-14)  | 06/20/2014     | <5.1                | <5.1                | <5.1                    | <5.1                      | <5.1         | <102               | <5.1                     | <5.1     | <102       | <102        | <5.1                      | <5.1               | <20.3              | <25.4                       | <5.1                    | <5.1        | <5.1            | <5.1    |
| TMW-6 (14-16)  | 06/20/2014     | <4.0                | <4.0                | <4.0                    | <4.0                      | <4.0         | <80.7              | <4.0                     | <4.0     | <80.7      | <80.7       | <4.0                      | <4.0               | <16.1              | <20.2                       | <4.0                    | <4.0        | <4.0            | <4.0    |
| TMW-7 (14-16)  | 06/19/2014     | <5.2                | <5.2                | <5.2                    | <5.2                      | <5.2         | <103               | <5.2                     | <5.2     | <103       | <103        | <5.2                      | <5.2               | <20.6              | <25.8                       | <5.2                    | <5.2        | <5.2            | <5.2    |
| TMW-8 (10-12)  | 06/23/2014     | <5.3                | <5.3                | <5.3                    | <5.3                      | <5.3         | <105               | <5.3                     | <5.3     | <105       | <105        | <5.3                      | <5.3               | <21.1              | <26.4                       | <5.3                    | <5.3        | <5.3            | <5.3    |
| Dupe (TMW-8)   | 06/23/2014     | <5.2                | <5.2                | <5.2                    | <5.2                      | <5.2         | <104               | <5.2                     | <5.2     | <104       | <104        | <5.2                      | <5.2               | <20.8              | <25.9                       | <5.2                    | <5.2        | <5.2            | <5.2    |
| TMW-9 (16-18)  | 06/19/2014     | <4.8                | <4.8                | <4.8                    | <4.8                      | <4.8         | <95.3              | <4.8                     | <4.8     | <95.3      | <95.3       | <4.8                      | <4.8               | <19.1              | <23.8                       | <4.8                    | <4.8        | <4.8            | <4.8    |
| TMW-10 (10-12) | 06/23/2014     | <4.6                | <4.6                | <4.6                    | <4.6                      | <4.6         | <92.1              | <4.6                     | <4.6     | <92.1      | <92.1       | <4.6                      | <4.6               | <18.4              | <23.0                       | <4.6                    | <4.6        | <4.6            | <4.6    |

|                               |     |     |        |        |        |         |         |        |         |     |        |     |         |         |         |         |        |        |
|-------------------------------|-----|-----|--------|--------|--------|---------|---------|--------|---------|-----|--------|-----|---------|---------|---------|---------|--------|--------|
| <b>Residential Soil MTG</b>   | --- | --- | 29     | 29     | 16000  | 2000    | 100     | 34000  | 160     | --- | 13000  | --- | 25      | 4500    | 540     | 92      | 20000  | 2200   |
| <b>Residential Direct</b>     | --- | --- | 24000  | 24000  | 76000  | 1100000 | 85000   | 140000 | 290000  | --- | 270000 | --- | 500000  | 3400000 | 600000  | 50000   | 260000 | 870000 |
| <b>Comm/Industrial Direct</b> | --- | --- | 59000  | 59000  | 270000 | 1100000 | 220000  | 140000 | 1400000 | --- | 270000 | --- | 3100000 | 3400000 | 2200000 | 180000  | 260000 | 870000 |
| <b>Excavation Direct</b>      | --- | --- | 520000 | 520000 | 480000 | 1100000 | 1000000 | 140000 | 2300000 | --- | 270000 | --- | 3300000 | 3400000 | 8900000 | 1000000 | 260000 | 870000 |

**Table 3-A**  
**Volatile Organic Compound (VOC) Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
220 W. Eckman Street  
South Bend, IN 46614  
Prepared by Weaver Boos Consultants

| Sample ID      | Date Collected | 1,1,1,2-Tetrachloroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Toluene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | 1,2,3-Trichloropropane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Vinyl acetate | Vinyl chloride | Xylene (Total) | Percent Moisture |
|----------------|----------------|---------------------------|---------------------------|-------------------|---------|------------------------|------------------------|-----------------------|-----------------------|-----------------|------------------------|------------------------|------------------------|------------------------|---------------|----------------|----------------|------------------|
|                |                | Units:                    | µg/kg                     | µg/kg             | µg/kg   | µg/kg                  | µg/kg                  | µg/kg                 | µg/kg                 | µg/kg           | µg/kg                  | µg/kg                  | µg/kg                  | µg/kg                  | µg/kg         | µg/kg          | µg/kg          | µg/kg            |
| P-1 (18-20)    | 06/23/2014     | <5.1                      | <5.1                      | <5.1              | <5.1    | <5.1                   | <5.1                   | <5.1                  | <5.1                  | <5.1            | <5.1                   | <5.1                   | <5.1                   | <5.1                   | <101          | <5.1           | <10.1          | 13.1             |
| P-2 (18-20)    | 06/23/2014     | <4.4                      | <4.4                      | <4.4              | <4.4    | <4.4                   | <4.4                   | <4.4                  | <4.4                  | <4.4            | <4.4                   | <4.4                   | <4.4                   | <4.4                   | <87.1         | <4.4           | <8.7           | 11.3             |
| P-3 (16-18)    | 06/19/2014     | <4.7                      | <4.7                      | <4.7              | <4.7    | <4.7                   | <4.7                   | <4.7                  | <4.7                  | <4.7            | <4.7                   | <4.7                   | <4.7                   | <4.7                   | <94.0         | <4.7           | <9.4           | 16.6             |
| P-4 (16-18)    | 06/19/2014     | <4.8                      | <4.8                      | <4.8              | <4.8    | <4.8                   | <4.8                   | <4.8                  | <4.8                  | <4.8            | <4.8                   | <4.8                   | <4.8                   | <4.8                   | <95.2         | <4.8           | <9.5           | 16.0             |
| P-5 (10-12)    | 06/20/2014     | <4.9                      | <4.9                      | <4.9              | <4.9    | <4.9                   | <4.9                   | <4.9                  | <4.9                  | <4.9            | <4.9                   | <4.9                   | <4.9                   | <4.9                   | <98.1         | <4.9           | <9.8           | 3.9              |
| P-6 (10-12)    | 06/20/2014     | <4.9                      | <4.9                      | <4.9              | <4.9    | <4.9                   | <4.9                   | <4.9                  | <4.9                  | <4.9            | <4.9                   | <4.9                   | <4.9                   | <4.9                   | <97.7         | <4.9           | <9.8           | 2.9              |
| P-7 (13-15)    | 06/19/2014     | <5.5                      | <5.5                      | <5.5              | <5.5    | <5.5                   | <5.5                   | <5.5                  | <5.5                  | <5.5            | <5.5                   | <5.5                   | <5.5                   | <5.5                   | <109          | <5.5           | <10.9          | 15.7             |
| P-8 (16-18)    | 06/19/2014     | <4.9                      | <4.9                      | <4.9              | <4.9    | <4.9                   | <4.9                   | <4.9                  | <4.9                  | <4.9            | <4.9                   | <4.9                   | <4.9                   | <4.9                   | <98.1         | <4.9           | <9.8           | 16.0             |
| P-9 (13-15)    | 06/19/2014     | <4.9                      | <4.9                      | <4.9              | <4.9    | <4.9                   | <4.9                   | <4.9                  | <4.9                  | <4.9            | <4.9                   | <4.9                   | <4.9                   | <4.9                   | <97.3         | <4.9           | <9.7           | 14.8             |
| P-10 (12-14)   | 06/23/2014     | <4.7                      | <4.7                      | <4.7              | <4.7    | <4.7                   | <4.7                   | <4.7                  | <4.7                  | <4.7            | <4.7                   | <4.7                   | <4.7                   | <4.7                   | <95.0         | <4.7           | <9.5           | 2.3              |
| TMW-1 (11-13)  | 06/23/2014     | <5.3                      | <5.3                      | <5.3              | <5.3    | <5.3                   | <5.3                   | <5.3                  | <5.3                  | <5.3            | <5.3                   | <5.3                   | <5.3                   | <5.3                   | <107          | <5.3           | <10.7          | 11.0             |
| TMW-2 (13-15)  | 06/23/2014     | <5.9                      | <5.9                      | <5.9              | <5.9    | <5.9                   | <5.9                   | <5.9                  | <5.9                  | <5.9            | <5.9                   | <5.9                   | <5.9                   | <5.9                   | <117          | <5.9           | <11.7          | 16.3             |
| TMW-3 (15-16)  | 06/19/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | <5.0                  | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <99.6         | <5.0           | <10.0          | 14.3             |
| TMW-4 (14-16)  | 06/20/2014     | <5.6                      | <5.6                      | <5.6              | <5.6    | <5.6                   | <5.6                   | <5.6                  | <5.6                  | <5.6            | <5.6                   | <5.6                   | <5.6                   | <5.6                   | <111          | <5.6           | <11.1          | 10.9             |
| TMW-5 (12-14)  | 06/20/2014     | <5.1                      | <5.1                      | <5.1              | <5.1    | <5.1                   | <5.1                   | <5.1                  | <5.1                  | <5.1            | <5.1                   | <5.1                   | <5.1                   | <5.1                   | <102          | <5.1           | <10.2          | 4.7              |
| TMW-6 (14-16)  | 06/20/2014     | <4.0                      | <4.0                      | <4.0              | <4.0    | <4.0                   | <4.0                   | <4.0                  | <4.0                  | <4.0            | <4.0                   | <4.0                   | <4.0                   | <4.0                   | <80.7         | <4.0           | <8.1           | 9.1              |
| TMW-7 (14-16)  | 06/19/2014     | <5.2                      | <5.2                      | <5.2              | <5.2    | <5.2                   | <5.2                   | <5.2                  | <5.2                  | <5.2            | <5.2                   | <5.2                   | <5.2                   | <5.2                   | <103          | <5.2           | <10.3          | 14.2             |
| TMW-8 (10-12)  | 06/23/2014     | <5.3                      | <5.3                      | <5.3              | <5.3    | <5.3                   | <5.3                   | <5.3                  | <5.3                  | <5.3            | <5.3                   | <5.3                   | <5.3                   | <5.3                   | <105          | <5.3           | <10.5          | 3.0              |
| Dupe (TMW-8)   | 06/23/2014     | <5.2                      | <5.2                      | <5.2              | <5.2    | <5.2                   | <5.2                   | <5.2                  | <5.2                  | <5.2            | <5.2                   | <5.2                   | <5.2                   | <5.2                   | <104          | <5.2           | <10.4          | 3.3              |
| TMW-9 (16-18)  | 06/19/2014     | <4.8                      | <4.8                      | <4.8              | <4.8    | <4.8                   | <4.8                   | <4.8                  | <4.8                  | <4.8            | <4.8                   | <4.8                   | <4.8                   | <4.8                   | <95.3         | <4.8           | <9.5           | 14.6             |
| TMW-10 (10-12) | 06/23/2014     | <4.6                      | <4.6                      | <4.6              | <4.6    | <4.6                   | <4.6                   | <4.6                  | <4.6                  | <4.6            | <4.6                   | <4.6                   | <4.6                   | <4.6                   | <92.1         | <4.6           | <9.2           | 6.3              |

|                               |        |         |        |        |        |        |        |       |       |         |       |        |        |         |        |        |
|-------------------------------|--------|---------|--------|--------|--------|--------|--------|-------|-------|---------|-------|--------|--------|---------|--------|--------|
| <b>Residential Soil MTG</b>   | 38     | 5.2     | 45     | 14000  | 310    | 4100   | 1400   | 32    | 36    | 14000   | 0.056 | 440    | 2500   | 1700    | 14     | 200000 |
| <b>Residential Direct</b>     | 27000  | 7800    | 120000 | 820000 | 69000  | 87000  | 640000 | 2200  | 6200  | 1100000 | 70    | 87000  | 180000 | 1400000 | 840    | 260000 |
| <b>Comm/Industrial Direct</b> | 93000  | 28000   | 170000 | 820000 | 490000 | 270000 | 640000 | 6800  | 20000 | 1200000 | 950   | 220000 | 180000 | 2800000 | 17000  | 260000 |
| <b>Excavation Direct</b>      | 680000 | 1900000 | 170000 | 820000 | 820000 | 400000 | 640000 | 11000 | 34000 | 1200000 | 37000 | 220000 | 180000 | 2800000 | 660000 | 260000 |

**Table 3-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID      | Date Collected | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Benzyl alcohol | 4-Bromophenyl ether | Butylbenzylphthalate | 4-Chloro-3-methylphenol | 4-Chloroaniline | bis(2-Chloroethoxy)methane | bis(2-Chloroethyl) ether | bis(2chloro1 methylethyl) ether |
|----------------|----------------|--------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|----------------|---------------------|----------------------|-------------------------|-----------------|----------------------------|--------------------------|---------------------------------|
|                | Units:         | µg/kg        | µg/kg          | µg/kg      | µg/kg              | µg/kg          | µg/kg                | µg/kg                | µg/kg                | µg/kg          | µg/kg               | µg/kg                | µg/kg                   | µg/kg           | µg/kg                      | µg/kg                    | µg/kg                           |
| P-1 (18-20)    | 06/23/2014     | <377         | <377           | <377       | <377               | <194           | <377                 | <377                 | <377                 | <755           | <377                | <377                 | <755                    | <755            | <377                       | <377                     | <377                            |
| P-2 (18-20)    | 06/23/2014     | <369         | <369           | <369       | <369               | <190           | <369                 | <369                 | <369                 | <739           | <369                | <369                 | <739                    | <739            | <369                       | <369                     | <369                            |
| P-3 (16-18)    | 06/19/2014     | <393         | <393           | <393       | <393               | <202           | <393                 | <393                 | <393                 | <786           | <393                | <393                 | <786                    | <786            | <393                       | <393                     | <393                            |
| P-4 (16-18)    | 06/19/2014     | <392         | <392           | <392       | <392               | <202           | <392                 | <392                 | <392                 | <783           | <392                | <392                 | <783                    | <783            | <392                       | <392                     | <392                            |
| P-5 (10-12)    | 06/20/2014     | <339         | <339           | <339       | <339               | <174           | <339                 | <339                 | <339                 | <677           | <339                | <339                 | <677                    | <677            | <339                       | <339                     | <339                            |
| P-6 (10-12)    | 06/20/2014     | <339         | <339           | <339       | <339               | <175           | <339                 | <339                 | <339                 | <678           | <339                | <339                 | <678                    | <678            | <339                       | <339                     | <339                            |
| P-7 (13-15)    | 06/19/2014     | <389         | <389           | <389       | <389               | <200           | <389                 | <389                 | <389                 | <778           | <389                | <389                 | <778                    | <778            | <389                       | <389                     | <389                            |
| P-8 (16-18)    | 06/19/2014     | <389         | <389           | <389       | <389               | <200           | <389                 | <389                 | <389                 | <778           | <389                | <389                 | <778                    | <778            | <389                       | <389                     | <389                            |
| P-9 (13-15)    | 06/19/2014     | <382         | <382           | <382       | <382               | <197           | <382                 | <382                 | <382                 | <764           | <382                | <382                 | <764                    | <764            | <382                       | <382                     | <382                            |
| P-10 (12-14)   | 06/23/2014     | <336         | <336           | <336       | <336               | <173           | <336                 | <336                 | <336                 | <671           | <336                | <336                 | <671                    | <671            | <336                       | <336                     | <336                            |
| TMW-1 (11-13)  | 06/23/2014     | <367         | <367           | <367       | <367               | <189           | <367                 | <367                 | <367                 | <734           | <367                | <367                 | <734                    | <734            | <367                       | <367                     | <367                            |
| TMW-2 (13-15)  | 06/23/2014     | <389         | <389           | <389       | <389               | <201           | <389                 | <389                 | <389                 | <778           | <389                | <389                 | <778                    | <778            | <389                       | <389                     | <389                            |
| TMW-3 (15-16)  | 06/19/2014     | <384         | <384           | <384       | <384               | <198           | <384                 | <384                 | <384                 | <768           | <384                | <384                 | <768                    | <768            | <384                       | <384                     | <384                            |
| TMW-4 (14-16)  | 06/20/2014     | <369         | <369           | <369       | <369               | <190           | <369                 | <369                 | <369                 | <738           | <369                | <369                 | <738                    | <738            | <369                       | <369                     | <369                            |
| TMW-5 (12-14)  | 06/20/2014     | <344         | <344           | <344       | <344               | <177           | <344                 | <344                 | <344                 | <688           | <344                | <344                 | <688                    | <688            | <344                       | <344                     | <344                            |
| TMW-6 (14-16)  | 06/20/2014     | <359         | <359           | <359       | <359               | <185           | <359                 | <359                 | <359                 | <719           | <359                | <359                 | <719                    | <719            | <359                       | <359                     | <359                            |
| TMW-7 (14-16)  | 06/19/2014     | <382         | <382           | <382       | <382               | <197           | <382                 | <382                 | <382                 | <764           | <382                | <382                 | <764                    | <764            | <382                       | <382                     | <382                            |
| TMW-8 (10-12)  | 06/23/2014     | <340         | <340           | <340       | <340               | <175           | <340                 | <340                 | <340                 | <681           | <340                | <340                 | <681                    | <681            | <340                       | <340                     | <340                            |
| Dupe (TMW-8)   | 06/23/2014     | <337         | <337           | <337       | <337               | <173           | <337                 | <337                 | <337                 | <673           | <337                | <337                 | <673                    | <673            | <337                       | <337                     | <337                            |
| TMW-9 (16-18)  | 06/19/2014     | <384         | <384           | <384       | <384               | <198           | <384                 | <384                 | <384                 | <768           | <384                | <384                 | <768                    | <768            | <384                       | <384                     | <384                            |
| TMW-10 (10-12) | 06/23/2014     | <349         | <349           | <349       | <349               | <180           | <349                 | <349                 | <349                 | <697           | <349                | <349                 | <697                    | <697            | <349                       | <349                     | <349                            |

|                               |          |     |           |         |        |         |     |         |           |     |           |           |         |         |        |         |
|-------------------------------|----------|-----|-----------|---------|--------|---------|-----|---------|-----------|-----|-----------|-----------|---------|---------|--------|---------|
| <b>Residential Soil MTG</b>   | 82000    | --- | 860000    | 2100    | 4700   | 7000    | --- | 68000   | 7300      | --- | 41000     | 26000     | 27      | 210     | 0.63   | 23      |
| <b>Residential Direct</b>     | 4800000  | --- | 24000000  | 2100    | 210    | 2100    | --- | 21000   | 8500000   | --- | 3600000   | 8500000   | 34000   | 250000  | 2900   | 64000   |
| <b>Comm/Industrial Direct</b> | 33000000 | --- | 100000000 | 21000   | 2100   | 21000   | --- | 210000  | 62000000  | --- | 9100000   | 62000000  | 86000   | 1800000 | 10000  | 220000  |
| <b>Excavation Direct</b>      | 55000000 | --- | 100000000 | 1300000 | 130000 | 1300000 | --- | 1300000 | 100000000 | --- | 100000000 | 100000000 | 4200000 | 3100000 | 750000 | 1000000 |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

N/A N/A entries indicate that the sample was not analyzed for a particular constituent.

24.1 Detected, no SL exceedance

24.1 Exceeds Residential Direct SL OR Residential Soil MTG SL, whichever is lower

**24.1** Exceeds Commercial/Industrial Direct SL

**24.1** Exceeds Excavation Direct SL

**Table 3-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID                     | Date Collected | 2-Chloronaphthalene | 2-Chlorophenol | 4-Chlorophenyl ether | Chrysene  | Dibenz(a,h)anthracene | Dibenzofuran | 3,3'-Dichlorobenzidine | 2,4-Dichlorophenol | Diethylphthalate | 2,4-Dimethylphenol | Dimethylphthalate | Di-n-butylphthalate | 4,6-Dinitro-2-methylphenol | 2,4-Dinitrophenol | 2,4-Dinitrotoluene | 2,6-Dinitrotoluene |
|-------------------------------|----------------|---------------------|----------------|----------------------|-----------|-----------------------|--------------|------------------------|--------------------|------------------|--------------------|-------------------|---------------------|----------------------------|-------------------|--------------------|--------------------|
|                               | Units:         | µg/kg               | µg/kg          | µg/kg                | µg/kg     | µg/kg                 | µg/kg        | µg/kg                  | µg/kg              | µg/kg            | µg/kg              | µg/kg             | µg/kg               | µg/kg                      | µg/kg             | µg/kg              | µg/kg              |
| P-1 (18-20)                   | 06/23/2014     | <377                | <377           | <377                 | <377      | <194                  | <377         | <755                   | <377               | <377             | <377               | <377              | <377                | <1830                      | <1830             | <377               | <377               |
| P-2 (18-20)                   | 06/23/2014     | <369                | <369           | <369                 | <369      | <190                  | <369         | <739                   | <369               | <369             | <369               | <369              | <369                | <1790                      | <1790             | <369               | <369               |
| P-3 (16-18)                   | 06/19/2014     | <393                | <393           | <393                 | <393      | <202                  | <393         | <786                   | <393               | <393             | <393               | <393              | <393                | <1900                      | <1900             | <393               | <393               |
| P-4 (16-18)                   | 06/19/2014     | <392                | <392           | <392                 | <392      | <202                  | <392         | <783                   | <392               | <392             | <392               | <392              | <392                | <1900                      | <1900             | <392               | <392               |
| P-5 (10-12)                   | 06/20/2014     | <339                | <339           | <339                 | <339      | <174                  | <339         | <677                   | <339               | <339             | <339               | <339              | <339                | <1640                      | <1640             | <339               | <339               |
| P-6 (10-12)                   | 06/20/2014     | <339                | <339           | <339                 | <339      | <175                  | <339         | <678                   | <339               | <339             | <339               | <339              | <339                | <1640                      | <1640             | <339               | <339               |
| P-7 (13-15)                   | 06/19/2014     | <389                | <389           | <389                 | <389      | <200                  | <389         | <778                   | <389               | <389             | <389               | <389              | <389                | <1890                      | <1890             | <389               | <389               |
| P-8 (16-18)                   | 06/19/2014     | <389                | <389           | <389                 | <389      | <200                  | <389         | <778                   | <389               | <389             | <389               | <389              | <389                | <1890                      | <1890             | <389               | <389               |
| P-9 (13-15)                   | 06/19/2014     | <382                | <382           | <382                 | <382      | <197                  | <382         | <764                   | <382               | <382             | <382               | <382              | <382                | <1850                      | <1850             | <382               | <382               |
| P-10 (12-14)                  | 06/23/2014     | <336                | <336           | <336                 | <336      | <173                  | <336         | <671                   | <336               | <336             | <336               | <336              | <336                | <1630                      | <1630             | <336               | <336               |
| TMW-1 (11-13)                 | 06/23/2014     | <367                | <367           | <367                 | <367      | <189                  | <367         | <734                   | <367               | <367             | <367               | <367              | <367                | <1780                      | <1780             | <367               | <367               |
| TMW-2 (13-15)                 | 06/23/2014     | <389                | <389           | <389                 | <389      | <201                  | <389         | <778                   | <389               | <389             | <389               | <389              | <389                | <1890                      | <1890             | <389               | <389               |
| TMW-3 (15-16)                 | 06/19/2014     | <384                | <384           | <384                 | <384      | <198                  | <384         | <768                   | <384               | <384             | <384               | <384              | <384                | <1860                      | <1860             | <384               | <384               |
| TMW-4 (14-16)                 | 06/20/2014     | <369                | <369           | <369                 | <369      | <190                  | <369         | <738                   | <369               | <369             | <369               | <369              | <369                | <1790                      | <1790             | <369               | <369               |
| TMW-5 (12-14)                 | 06/20/2014     | <344                | <344           | <344                 | <344      | <177                  | <344         | <688                   | <344               | <344             | <344               | <344              | <344                | <1670                      | <1670             | <344               | <344               |
| TMW-6 (14-16)                 | 06/20/2014     | <359                | <359           | <359                 | <359      | <185                  | <359         | <719                   | <359               | <359             | <359               | <359              | <359                | <1740                      | <1740             | <359               | <359               |
| TMW-7 (14-16)                 | 06/19/2014     | <382                | <382           | <382                 | <382      | <197                  | <382         | <764                   | <382               | <382             | <382               | <382              | <382                | <1850                      | <1850             | <382               | <382               |
| TMW-8 (10-12)                 | 06/23/2014     | <340                | <340           | <340                 | <340      | <175                  | <340         | <681                   | <340               | <340             | <340               | <340              | <340                | <1650                      | <1650             | <340               | <340               |
| Dupe (TMW-8)                  | 06/23/2014     | <337                | <337           | <337                 | <337      | <173                  | <337         | <673                   | <337               | <337             | <337               | <337              | <337                | <1630                      | <1630             | <337               | <337               |
| TMW-9 (16-18)                 | 06/19/2014     | <384                | <384           | <384                 | <384      | <198                  | <384         | <768                   | <384               | <384             | <384               | <384              | <384                | <1860                      | <1860             | <384               | <384               |
| TMW-10 (10-12)                | 06/23/2014     | <349                | <349           | <349                 | <349      | <180                  | <349         | <697                   | <349               | <349             | <349               | <349              | <349                | <1690                      | <1690             | <349               | <349               |
| <b>Residential Soil MTG</b>   |                | 57000               | 1200           | ---                  | 210000    | 2200                  | 2100         | 140                    | 830                | 90000            | 6400               | ---               | 34000               | 41                         | 670               | 54                 | 12                 |
| <b>Residential Direct</b>     |                | 8800000             | 550000         | ---                  | 210000    | 210                   | 110000       | 15000                  | 250000             | 69000000         | 1700000            | ---               | 8500000             | 6900                       | 170000            | 22000              | 4600               |
| <b>Comm/Industrial Direct</b> |                | 82000000            | 5100000        | ---                  | 2100000   | 2100                  | 1000000      | 38000                  | 1800000            | 100000000        | 12000000           | ---               | 62000000            | 49000                      | 1200000           | 55000              | 12000              |
| <b>Excavation Direct</b>      |                | 100000000           | 8600000        | ---                  | 100000000 | 130000                | 1700000      | 2200000                | 3100000            | 100000000        | 20000000           | ---               | 100000000           | 82000                      | 2000000           | 2000000            | 310000             |

**Table 3-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID                     | Date Collected | Di-n-octylphthalate | bis(2-Ethylhexyl)phthalate | Fluoranthene | Fluorene | Hexachloro-1,3-butadiene | Hexachlorobenzene | Hexachlorocyclopentadiene | Hexachloroethane | Indeno(1,2,3-cd)pyrene | Isophorone | 2-Methylnaphthalene | 2-Methylphenol(o-Cresol) | 3&4-Methylphenol(m&p Cresol) | Naphthalene | 2-Nitroaniline | 3-Nitroaniline |
|-------------------------------|----------------|---------------------|----------------------------|--------------|----------|--------------------------|-------------------|---------------------------|------------------|------------------------|------------|---------------------|--------------------------|------------------------------|-------------|----------------|----------------|
|                               |                | Units:              | µg/kg                      | µg/kg        | µg/kg    | µg/kg                    | µg/kg             | µg/kg                     | µg/kg            | µg/kg                  | µg/kg      | µg/kg               | µg/kg                    | µg/kg                        | µg/kg       | µg/kg          | µg/kg          |
| P-1 (18-20)                   | 06/23/2014     | <377                | <377                       | <377         | <377     | <5.1                     | <377              | <377                      | <377             | <377                   | <377       | <377                | <377                     | <755                         | <5.1        | <1830          | <1830          |
| P-2 (18-20)                   | 06/23/2014     | <369                | <369                       | <369         | <369     | <4.4                     | <369              | <369                      | <369             | <369                   | <369       | <369                | <369                     | <739                         | <4.4        | <1790          | <1790          |
| P-3 (16-18)                   | 06/19/2014     | <393                | <393                       | <393         | <393     | <4.7                     | <393              | <393                      | <393             | <393                   | <393       | <393                | <393                     | <786                         | <4.7        | <1900          | <1900          |
| P-4 (16-18)                   | 06/19/2014     | <392                | <392                       | <392         | <392     | <4.8                     | <392              | <392                      | <392             | <392                   | <392       | <392                | <392                     | <783                         | <4.8        | <1900          | <1900          |
| P-5 (10-12)                   | 06/20/2014     | <339                | <339                       | <339         | <339     | <4.9                     | <339              | <339                      | <339             | <339                   | <339       | <339                | <339                     | <677                         | <4.9        | <1640          | <1640          |
| P-6 (10-12)                   | 06/20/2014     | <339                | <339                       | <339         | <339     | <4.9                     | <339              | <339                      | <339             | <339                   | <339       | <339                | <339                     | <678                         | <4.9        | <1640          | <1640          |
| P-7 (13-15)                   | 06/19/2014     | <389                | <389                       | <389         | <389     | <5.5                     | <389              | <389                      | <389             | <389                   | <389       | <389                | <389                     | <778                         | <5.5        | <1890          | <1890          |
| P-8 (16-18)                   | 06/19/2014     | <389                | <389                       | <389         | <389     | <4.9                     | <389              | <389                      | <389             | <389                   | <389       | <389                | <389                     | <778                         | <4.9        | <1890          | <1890          |
| P-9 (13-15)                   | 06/19/2014     | <382                | <382                       | <382         | <382     | <4.9                     | <382              | <382                      | <382             | <382                   | <382       | <382                | <382                     | <764                         | <4.9        | <1850          | <1850          |
| P-10 (12-14)                  | 06/23/2014     | <336                | <336                       | <336         | <336     | <4.7                     | <336              | <336                      | <336             | <336                   | <336       | <336                | <336                     | <671                         | <4.7        | <1630          | <1630          |
| TMW-1 (11-13)                 | 06/23/2014     | <367                | <367                       | <367         | <367     | <5.3                     | <367              | <367                      | <367             | <367                   | <367       | <367                | <367                     | <734                         | <5.3        | <1780          | <1780          |
| TMW-2 (13-15)                 | 06/23/2014     | <389                | <389                       | <389         | <389     | <5.9                     | <389              | <389                      | <389             | <389                   | <389       | <389                | <389                     | <778                         | <5.9        | <1890          | <1890          |
| TMW-3 (15-16)                 | 06/19/2014     | <384                | <384                       | <384         | <384     | <5.0                     | <384              | <384                      | <384             | <384                   | <384       | <384                | <384                     | <768                         | <5.0        | <1860          | <1860          |
| TMW-4 (14-16)                 | 06/20/2014     | <369                | <369                       | <369         | <369     | <5.6                     | <369              | <369                      | <369             | <369                   | <369       | <369                | <369                     | <738                         | <5.6        | <1790          | <1790          |
| TMW-5 (12-14)                 | 06/20/2014     | <344                | <344                       | <344         | <344     | <5.1                     | <344              | <344                      | <344             | <344                   | <344       | <344                | <344                     | <688                         | <5.1        | <1670          | <1670          |
| TMW-6 (14-16)                 | 06/20/2014     | <359                | <359                       | <359         | <359     | <4.0                     | <359              | <359                      | <359             | <359                   | <359       | <359                | <359                     | <719                         | <4.0        | <1740          | <1740          |
| TMW-7 (14-16)                 | 06/19/2014     | <382                | <382                       | <382         | <382     | <5.2                     | <382              | <382                      | <382             | <382                   | <382       | <382                | <382                     | <764                         | <5.2        | <1850          | <1850          |
| TMW-8 (10-12)                 | 06/23/2014     | <340                | <340                       | <340         | <340     | <5.3                     | <340              | <340                      | <340             | <340                   | <340       | <340                | <340                     | <681                         | <5.3        | <1650          | <1650          |
| Dupe (TMW-8)                  | 06/23/2014     | <337                | <337                       | <337         | <337     | <5.2                     | <337              | <337                      | <337             | <337                   | <337       | <337                | <337                     | <673                         | <5.2        | <1630          | <1630          |
| TMW-9 (16-18)                 | 06/19/2014     | <384                | <384                       | <384         | <384     | <4.8                     | <384              | <384                      | <384             | <384                   | <384       | <384                | <384                     | <768                         | <4.8        | <1860          | <1860          |
| TMW-10 (10-12)                | 06/23/2014     | <349                | <349                       | <349         | <349     | <4.6                     | <349              | <349                      | <349             | <349                   | <349       | <349                | <349                     | <697                         | <4.6        | <1690          | <1690          |
| <b>Residential Soil MTG</b>   |                | 900000              | 290000                     | 1400000      | 810000   | 100                      | 250               | 3100                      | 62               | 40000                  | 4400       | 2800                | 12000                    | 12000                        | 92          | 1300           | ---            |
| <b>Residential Direct</b>     |                | 850000              | 490000                     | 3200000      | 3200000  | 85000                    | 4200              | 520000                    | 60000            | 2100                   | 7100000    | 320000              | 4300000                  | 4300000                      | 50000       | 850000         | ---            |
| <b>Comm/Industrial Direct</b> |                | 6200000             | 1200000                    | 22000000     | 22000000 | 220000                   | 11000             | 3700000                   | 430000           | 21000                  | 18000000   | 2200000             | 31000000                 | 31000000                     | 180000      | 6000000        | ---            |
| <b>Excavation Direct</b>      |                | 10000000            | 20000000                   | 37000000     | 37000000 | 1000000                  | 630000            | 6200000                   | 730000           | 1300000                | 100000000  | 3700000             | 52000000                 | 52000000                     | 1000000     | 9900000        | ---            |

**Table 3-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
220 W. Eckman Street  
South Bend, IN 46614  
Prepared by Weaver Boos Consultants

| Sample ID      | Date Collected | 4-Nitroaniline | Nitrobenzene | 2-Nitrophenol | 4-Nitrophenol | N-Nitroso-di-n-propylamine | N-Nitrosodiphenylamine | Pentachlorophenol | Phenanthrene | Phenol | Pyrene | 2,4,5-Trichlorophenol | 2,4,6-Trichlorophenol | Percent Moisture |
|----------------|----------------|----------------|--------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------|--------|--------|-----------------------|-----------------------|------------------|
| Units:         |                | µg/kg          | µg/kg        | µg/kg         | µg/kg         | µg/kg                      | µg/kg                  | µg/kg             | µg/kg        | µg/kg  | µg/kg  | µg/kg                 | µg/kg                 | %                |
| P-1 (18-20)    | 06/23/2014     | <1830          | <377         | <377          | <1830         | <377                       | <377                   | <1830             | <377         | <377   | <377   | <377                  | <377                  | 13.1             |
| P-2 (18-20)    | 06/23/2014     | <1790          | <369         | <369          | <1790         | <369                       | <369                   | <1790             | <369         | <369   | <369   | <369                  | <369                  | 11.3             |
| P-3 (16-18)    | 06/19/2014     | <1900          | <393         | <393          | <1900         | <393                       | <393                   | <1900             | <393         | <393   | <393   | <393                  | <393                  | 16.6             |
| P-4 (16-18)    | 06/19/2014     | <1900          | <392         | <392          | <1900         | <392                       | <392                   | <1900             | <392         | <392   | <392   | <392                  | <392                  | 16.0             |
| P-5 (10-12)    | 06/20/2014     | <1640          | <339         | <339          | <1640         | <339                       | <339                   | <1640             | <339         | <339   | <339   | <339                  | <339                  | 3.9              |
| P-6 (10-12)    | 06/20/2014     | <1640          | <339         | <339          | <1640         | <339                       | <339                   | <1640             | <339         | <339   | <339   | <339                  | <339                  | 2.9              |
| P-7 (13-15)    | 06/19/2014     | <1890          | <389         | <389          | <1890         | <389                       | <389                   | <1890             | <389         | <389   | <389   | <389                  | <389                  | 15.7             |
| P-8 (16-18)    | 06/19/2014     | <1890          | <389         | <389          | <1890         | <389                       | <389                   | <1890             | <389         | <389   | <389   | <389                  | <389                  | 16.0             |
| P-9 (13-15)    | 06/19/2014     | <1850          | <382         | <382          | <1850         | <382                       | <382                   | <1850             | <382         | <382   | <382   | <382                  | <382                  | 14.8             |
| P-10 (12-14)   | 06/23/2014     | <1630          | <336         | <336          | <1630         | <336                       | <336                   | <1630             | <336         | <336   | <336   | <336                  | <336                  | 2.3              |
| TMW-1 (11-13)  | 06/23/2014     | <1780          | <367         | <367          | <1780         | <367                       | <367                   | <1780             | <367         | <367   | <367   | <367                  | <367                  | 11.0             |
| TMW-2 (13-15)  | 06/23/2014     | <1890          | <389         | <389          | <1890         | <389                       | <389                   | <1890             | <389         | <389   | <389   | <389                  | <389                  | 16.3             |
| TMW-3 (15-16)  | 06/19/2014     | <1860          | <384         | <384          | <1860         | <384                       | <384                   | <1860             | <384         | <384   | <384   | <384                  | <384                  | 14.3             |
| TMW-4 (14-16)  | 06/20/2014     | <1790          | <369         | <369          | <1790         | <369                       | <369                   | <1790             | <369         | <369   | <369   | <369                  | <369                  | 10.9             |
| TMW-5 (12-14)  | 06/20/2014     | <1670          | <344         | <344          | <1670         | <344                       | <344                   | <1670             | <344         | <344   | <344   | <344                  | <344                  | 4.7              |
| TMW-6 (14-16)  | 06/20/2014     | <1740          | <359         | <359          | <1740         | <359                       | <359                   | <1740             | <359         | <359   | <359   | <359                  | <359                  | 9.1              |
| TMW-7 (14-16)  | 06/19/2014     | <1850          | <382         | <382          | <1850         | <382                       | <382                   | <1850             | <382         | <382   | <382   | <382                  | <382                  | 14.2             |
| TMW-8 (10-12)  | 06/23/2014     | <1650          | <340         | <340          | <1650         | <340                       | <340                   | <1650             | <340         | <340   | <340   | <340                  | <340                  | 3.0              |
| Dupe (TMW-8)   | 06/23/2014     | <1630          | <337         | <337          | <1630         | <337                       | <337                   | <1630             | <337         | <337   | <337   | <337                  | <337                  | 3.3              |
| TMW-9 (16-18)  | 06/19/2014     | <1860          | <384         | <384          | <1860         | <384                       | <384                   | <1860             | <384         | <384   | <384   | <384                  | <384                  | 14.6             |
| TMW-10 (10-12) | 06/23/2014     | <1690          | <349         | <349          | <1690         | <349                       | <349                   | <1690             | <349         | <349   | <349   | <349                  | <349                  | 6.3              |

|                               |         |         |     |     |        |           |         |     |           |          |           |         |
|-------------------------------|---------|---------|-----|-----|--------|-----------|---------|-----|-----------|----------|-----------|---------|
| <b>Residential Soil MTG</b>   | 280     | 16      | --- | --- | 1.4    | 11000     | 200     | --- | 52000     | 190000   | 67000     | 680     |
| <b>Residential Direct</b>     | 340000  | 67000   | --- | --- | 970    | 1400000   | 12000   | --- | 25000000  | 2400000  | 8500000   | 85000   |
| <b>Comm/Industrial Direct</b> | 860000  | 240000  | --- | --- | 2500   | 3500000   | 27000   | --- | 100000000 | 17000000 | 62000000  | 620000  |
| <b>Excavation Direct</b>      | 4200000 | 2000000 | --- | --- | 140000 | 100000000 | 2000000 | --- | 100000000 | 28000000 | 100000000 | 1000000 |

**Table 3-C**  
**Polychlorinated Biphenyl (PCB) Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID      | Date Collected | Aroclor 1016 | Aroclor 1221 | Aroclor 1232 | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | Percent Moisture |
|----------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|
| Units:         |                | µg/kg        | µg/kg        | µg/kg        | µg/kg        | µg/kg        | µg/kg        | µg/kg        | %                |
| P-1 (18-20)    | 06/23/2014     | <114         | <114         | <114         | <114         | <114         | <114         | <114         | 13.1             |
| P-2 (18-20)    | 06/23/2014     | <111         | <111         | <111         | <111         | <111         | <111         | <111         | 11.3             |
| P-3 (16-18)    | 06/19/2014     | <119         | <119         | <119         | <119         | <119         | <119         | <119         | 16.6             |
| P-4 (16-18)    | 06/19/2014     | <119         | <119         | <119         | <119         | <119         | <119         | <119         | 16.0             |
| P-5 (10-12)    | 06/20/2014     | <103         | <103         | <103         | <103         | <103         | <103         | <103         | 3.9              |
| P-6 (10-12)    | 06/20/2014     | <103         | <103         | <103         | <103         | <103         | <103         | <103         | 2.9              |
| P-7 (13-15)    | 06/19/2014     | <118         | <118         | <118         | <118         | <118         | <118         | <118         | 15.7             |
| P-8 (16-18)    | 06/19/2014     | <118         | <118         | <118         | <118         | <118         | <118         | <118         | 16.0             |
| P-9 (13-15)    | 06/19/2014     | <117         | <117         | <117         | <117         | <117         | <117         | <117         | 14.8             |
| P-10 (12-14)   | 06/23/2014     | <102         | <102         | <102         | <102         | <102         | <102         | <102         | 2.3              |
| TMW-1 (11-13)  | 06/23/2014     | <111         | <111         | <111         | <111         | <111         | <111         | <111         | 11.0             |
| TMW-2 (13-15)  | 06/23/2014     | <118         | <118         | <118         | <118         | <118         | <118         | <118         | 16.3             |
| TMW-3 (15-16)  | 06/19/2014     | <117         | <117         | <117         | <117         | <117         | <117         | <117         | 14.3             |
| TMW-4 (14-16)  | 06/20/2014     | <111         | <111         | <111         | <111         | <111         | <111         | <111         | 10.9             |
| TMW-5 (12-14)  | 06/20/2014     | <104         | <104         | <104         | <104         | <104         | <104         | <104         | 4.7              |
| TMW-6 (14-16)  | 06/20/2014     | <109         | <109         | <109         | <109         | <109         | <109         | <109         | 9.1              |
| TMW-7 (14-16)  | 06/19/2014     | <116         | <116         | <116         | <116         | <116         | <116         | <116         | 14.2             |
| TMW-8 (10-12)  | 06/23/2014     | <102         | <102         | <102         | <102         | <102         | <102         | <102         | 3.0              |
| Dupe (TMW-8)   | 06/23/2014     | <103         | <103         | <103         | <103         | <103         | <103         | <103         | 3.3              |
| TMW-9 (16-18)  | 06/19/2014     | <116         | <116         | <116         | <116         | <116         | <116         | <116         | 14.6             |
| TMW-10 (10-12) | 06/23/2014     | <106         | <106         | <106         | <106         | <106         | <106         | <106         | 6.3              |

|                               |       |        |       |        |        |       |        |
|-------------------------------|-------|--------|-------|--------|--------|-------|--------|
| <b>Residential Soil MTG</b>   | 2100  | 14     | 14    | 1100   | 1000   | 1600  | 4800   |
| <b>Residential Direct</b>     | 5500  | 2000   | 2000  | 3100   | 3100   | 1500  | 3100   |
| <b>Comm/Industrial Direct</b> | 37000 | 5400   | 54000 | 7400   | 7400   | 7400  | 7400   |
| <b>Excavation Direct</b>      | 63000 | 390000 | 73000 | 460000 | 460000 | 18000 | 460000 |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

N/A entries indicate that the sample was not analyzed for a particular constituent.

24.1 Detected, no SL exceedance

**24.1** Exceeds Residential Direct SL OR Residential Soil MTG SL, whichever is lower

**24.1** Exceeds Commercial/Industrial Direct SL

**24.1** Exceeds Excavation Direct SL



**Table 3-D**  
**Total Metal Concentrations in Subsurface Soil**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID      | Date Collected | Antimony | Arsenic | Chromium (Total) | Chromium (Hexavalent) | Cobalt | Iron        | Lead  | Selenium | Thallium   | Percent Moisture |
|----------------|----------------|----------|---------|------------------|-----------------------|--------|-------------|-------|----------|------------|------------------|
| Units:         |                | mg/kg    | mg/kg   | mg/kg            | mg/kg                 | mg/kg  | mg/kg       | mg/kg | mg/kg    | mg/kg      | %                |
| P-1 (18-20)    | 06/23/2014     | <1.1     | 1.5     | 2.8              | N/A                   | 1.5    | 3140        | 2.1   | <1.1     | <b>1.8</b> | 13.1             |
| P-2 (18-20)    | 06/23/2014     | <1.1     | 1.9     | 8.8              | N/A                   | 1.6    | 4680        | 3.5   | <1.1     | <b>2.7</b> | 11.3             |
| P-3 (16-18)    | 06/19/2014     | <1.0     | 1.4     | 2.1              | N/A                   | 1.2    | 2770        | 1.2   | <1.0     | <b>1.6</b> | 16.6             |
| P-4 (16-18)    | 06/19/2014     | <1.2     | 1.7     | 2.9              | N/A                   | 1.3    | 3620        | 1.4   | <1.2     | <b>1.8</b> | 16.0             |
| P-5 (10-12)    | 06/20/2014     | <0.87    | 2.0     | 3.5              | N/A                   | 1.1    | 4140        | 2.6   | <0.87    | <b>1.5</b> | 3.9              |
| P-6 (10-12)    | 06/20/2014     | <1.0     | 3.3     | 4.3              | N/A                   | 2.1    | 4940        | 5.7   | <1.0     | <b>2.3</b> | 2.9              |
| P-7 (13-15)    | 06/19/2014     | <1.0     | 3.0     | 3.1              | N/A                   | 1.7    | 4750        | 10.4  | <1.0     | <b>2.2</b> | 15.7             |
| P-8 (16-18)    | 06/19/2014     | <1.1     | 2.4     | 3.6              | N/A                   | 1.7    | 4070        | 2.2   | <1.1     | <b>1.8</b> | 16.0             |
| P-9 (13-15)    | 06/19/2014     | <1.0     | 3.1     | 4.6              | N/A                   | 2.7    | 5050        | 4.9   | <1.0     | <b>2.2</b> | 14.8             |
| P-10 (12-14)   | 06/23/2014     | <0.97    | 1.3     | 2.4              | N/A                   | 1.2    | 2630        | 2.0   | <0.97    | <b>1.6</b> | 2.3              |
| TMW-1 (11-13)  | 06/23/2014     | <1.0     | 2.8     | 4.5              | N/A                   | 1.2    | 5410        | 2.9   | <1.0     | <b>2.8</b> | 11.0             |
| TMW-2 (13-15)  | 06/23/2014     | <1.0     | 2.2     | 3.0              | N/A                   | 1.5    | 4160        | 2.8   | <1.0     | <b>2.2</b> | 16.3             |
| TMW-3 (15-16)  | 06/19/2014     | <1.1     | 5.5     | 2.6              | N/A                   | 1.6    | <b>5710</b> | 6.4   | <1.1     | <b>1.9</b> | 14.3             |
| TMW-4 (14-16)  | 06/20/2014     | <0.99    | 3.2     | 5.4              | N/A                   | 1.9    | 5490        | 4.9   | <0.99    | <b>2.1</b> | 10.9             |
| TMW-5 (12-14)  | 06/20/2014     | <0.91    | 1.6     | 2.6              | N/A                   | 1.2    | 2980        | 1.9   | <0.91    | <b>1.8</b> | 4.7              |
| TMW-6 (14-16)  | 06/20/2014     | <0.97    | 2.0     | 3.4              | N/A                   | 1.2    | 3310        | 2.4   | <0.97    | <b>1.5</b> | 9.1              |
| TMW-7 (14-16)  | 06/19/2014     | <1.0     | 1.7     | 3.4              | N/A                   | 1.7    | 3690        | 2.0   | <1.0     | <b>2.0</b> | 14.2             |
| TMW-8 (10-12)  | 06/23/2014     | <0.94    | 2.2     | 3.9              | N/A                   | 1.3    | 4420        | 3.6   | <0.94    | <b>1.9</b> | 3.0              |
| Dupe (TMW-8)   | 06/23/2014     | <0.96    | 3.6     | 3.1              | N/A                   | 1.1    | 5410        | 6.1   | <0.96    | <b>2.7</b> | 3.3              |
| TMW-9 (16-18)  | 06/19/2014     | <1.0     | 1.5     | 3.0              | N/A                   | 1.3    | 3000        | 1.7   | <1.0     | <b>1.5</b> | 14.6             |
| TMW-10 (10-12) | 06/23/2014     | <0.95    | 3.4     | 7.3              | N/A                   | 3.2    | <b>8210</b> | 7.5   | <0.95    | <b>1.7</b> | 6.3              |

|                               |     |     |         |      |     |        |      |      |     |
|-------------------------------|-----|-----|---------|------|-----|--------|------|------|-----|
| <b>Residential Soil MTG</b>   | 5.4 | 5.9 | 1000000 | 0.12 | 4.3 | 5600   | 270  | 5.3  | 2.9 |
| <b>Residential Direct</b>     | 43  | 8.5 | ---     | 4.1  | 32  | 77000  | 400  | 550  | 1.1 |
| <b>Comm/Industrial Direct</b> | 410 | 24  | ---     | 56   | 300 | 100000 | 800  | 5100 | 10  |
| <b>Excavation Direct</b>      | 690 | 640 | ---     | 2400 | 520 | 100000 | 1000 | 8600 | 17  |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

N/A N/A entries indicate that the sample was not analyzed for a particular constituent.

24.1 Detected, no SL exceedance

**24.1** Exceeds Residential Direct SL OR Residential Soil MTG SL, whichever is lower

**24.1** Exceeds Commercial/Industrial Direct SL

**24.1** Exceeds Excavation Direct SL

**Table 4-A**  
**Volatile Organic Compound (VOC) Concentrations in Groundwater**  
**Former Sibley/Accuacast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID   | Date Collected | Acetone | Acrolein | Acrylonitrile | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | 2-Butanone (MEK) | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Carbon disulfide | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform |
|-------------|----------------|---------|----------|---------------|---------|--------------|--------------------|----------------------|-----------|--------------|------------------|----------------|------------------|-------------------|------------------|----------------------|---------------|--------------|------------|
|             |                | Units:  | µg/L     | µg/L          | µg/L    | µg/L         | µg/L               | µg/L                 | µg/L      | µg/L         | µg/L             | µg/L           | µg/L             | µg/L              | µg/L             | µg/L                 | µg/L          | µg/L         | µg/L       |
| TMW-1       | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-2       | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-3       | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-4       | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-5       | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-6       | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| GW-Dupe (6) | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-7       | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-8       | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-9       | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |
| TMW-10      | 07/02/2014     | <100    | <50.0    | <100          | <5.0    | <5.0         | <5.0               | <5.0                 | <5.0      | <5.0         | <25.0            | <5.0           | <5.0             | <5.0              | <10.0            | <5.0                 | <5.0          | <5.0         | <5.0       |

|                        |       |       |     |     |     |     |     |     |     |      |     |      |     |     |     |     |       |     |
|------------------------|-------|-------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|-----|
| Residential Tap        | 12000 | 0.041 | --- | 5   | 54  | 83  | 80  | 80  | 7   | 4900 | 780 | 1600 | 510 | 720 | 5   | 100 | 21000 | 80  |
| Resid. Vapor Exposure  | ---   | ---   | --- | 24  | --- | --- | --- | --- | --- | ---  | --- | ---  | --- | --- | 5.7 | --- | ---   | --- |
| Com/Ind Vapor Exposure | ---   | ---   | --- | 120 | --- | --- | --- | --- | --- | ---  | --- | ---  | --- | --- | 28  | --- | ---   | --- |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

N/A entries indicate that the sample was not analyzed for a particular constituent.

24.1 Detected, no SL exceedance

24.1 Exceeds Residential Tap SL

24.1 Exceeds Residential Vapor Exposure SL

24.1 Exceeds Commercial/Industrial Vapor Exposure SL

**Table 4-A**  
**Volatile Organic Compound (VOC) Concentrations in Groundwater**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID                     | Date Collected | Chloromethane | 2-Chlorotoluene | 4-Chlorotoluene | Dibromochloromethane | 1,2-Dibromoethane (EDB) | Dibromomethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | trans-1,4-Dichloro-2-butene | Dichlorodifluoromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | 1,3-Dichloropropane |
|-------------------------------|----------------|---------------|-----------------|-----------------|----------------------|-------------------------|----------------|---------------------|---------------------|---------------------|-----------------------------|-------------------------|--------------------|--------------------|--------------------|------------------------|--------------------------|---------------------|---------------------|
|                               |                | Units:        | µg/L            | µg/L            | µg/L                 | µg/L                    | µg/L           | µg/L                | µg/L                | µg/L                | µg/L                        | µg/L                    | µg/L               | µg/L               | µg/L               | µg/L                   | µg/L                     | µg/L                | µg/L                |
| TMW-1                         | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-2                         | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-3                         | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-4                         | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-5                         | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-6                         | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| GW-Dupe (6)                   | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-7                         | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-8                         | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-9                         | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| TMW-10                        | 07/02/2014     | <5.0          | <5.0            | <5.0            | <5.0                 | <5.0                    | <5.0           | <5.0                | <5.0                | <5.0                | <100                        | <5.0                    | <5.0               | <5.0               | <5.0               | <5.0                   | <5.0                     | <5.0                | <5.0                |
| <b>Residential Tap</b>        |                | 190           | 180             | 190             | 80                   | 0.05                    | 7.9            | 600                 | ---                 | 75                  | 0.012                       | 190                     | 24                 | 5                  | 7                  | 70                     | 100                      | 5                   | 290                 |
| <b>Resid. Vapor Exposure</b>  |                | ---           | ---             | ---             | ---                  | ---                     | ---            | ---                 | ---                 | ---                 | ---                         | ---                     | 110                | 43                 | 300                | ---                    | ---                      | ---                 | ---                 |
| <b>Com/Ind Vapor Exposure</b> |                | ---           | ---             | ---             | ---                  | ---                     | ---            | ---                 | ---                 | ---                 | ---                         | ---                     | 550                | 210                | 1300               | ---                    | ---                      | ---                 | ---                 |

**Table 4-A**  
**Volatile Organic Compound (VOC) Concentrations in Groundwater**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID                     | Date Collected | 2,2-Dichloropropane | 1,1-Dichloropropene | cis-1,3-Dichloropropene | trans-1,3-Dichloropropene | Ethylbenzene | Ethyl methacrylate | Hexachloro-1,3-butadiene | n-Hexane | 2-Hexanone | Iodomethane | Isopropylbenzene (Cumene) | p-Isopropyltoluene | Methylene Chloride | 4-Methyl-2-pentanone (MIBK) | Methyl-tert-butyl ether | Naphthalene | n-Propylbenzene | Styrene |
|-------------------------------|----------------|---------------------|---------------------|-------------------------|---------------------------|--------------|--------------------|--------------------------|----------|------------|-------------|---------------------------|--------------------|--------------------|-----------------------------|-------------------------|-------------|-----------------|---------|
|                               |                | Units:              | µg/L                | µg/L                    | µg/L                      | µg/L         | µg/L               | µg/L                     | µg/L     | µg/L       | µg/L        | µg/L                      | µg/L               | µg/L               | µg/L                        | µg/L                    | µg/L        | µg/L            | µg/L    |
| TMW-1                         | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.2                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.2        | <5.0            | <5.0    |
| TMW-2                         | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.2                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.2        | <5.0            | <5.0    |
| TMW-3                         | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.2                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.2        | <5.0            | <5.0    |
| TMW-4                         | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.2                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.2        | <5.0            | <5.0    |
| TMW-5                         | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.2                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.2        | <5.0            | <5.0    |
| TMW-6                         | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.4                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.4        | <5.0            | <5.0    |
| GW-Dupe (6)                   | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.3                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.3        | <5.0            | <5.0    |
| TMW-7                         | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.2                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.2        | <5.0            | <5.0    |
| TMW-8                         | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.2                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.2        | <5.0            | <5.0    |
| TMW-9                         | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.0                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.0        | <5.0            | <5.0    |
| TMW-10                        | 07/02/2014     | <5.0                | <5.0                | <5.0                    | <5.0                      | <5.0         | <100               | <5.2                     | <5.0     | <25.0      | <10.0       | <5.0                      | <5.0               | <5.0               | <25.0                       | <4.0                    | <5.2        | <5.0            | <5.0    |
| <b>Residential Tap</b>        |                | ---                 | ---                 | 4.1                     | 4.1                       | 700          | 420                | 1                        | 250      | 34         | ---         | 390                       | ---                | 5                  | 1000                        | 120                     | 1.4         | 530             | 100     |
| <b>Resid. Vapor Exposure</b>  |                | ---                 | ---                 | ---                     | ---                       | ---          | ---                | ---                      | ---      | ---        | ---         | ---                       | ---                | ---                | ---                         | ---                     | 91          | ---             | ---     |
| <b>Com/Ind Vapor Exposure</b> |                | ---                 | ---                 | ---                     | ---                       | ---          | ---                | ---                      | ---      | ---        | ---         | ---                       | ---                | ---                | ---                         | ---                     | 460         | ---             | ---     |

**Table 4-A**  
**Volatile Organic Compound (VOC) Concentrations in Groundwater**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID   | Date Collected | 1,1,1,2-Tetrachloroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Toluene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | 1,2,3-Trichloropropane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Vinyl acetate | Vinyl chloride | Xylene (Total) |
|-------------|----------------|---------------------------|---------------------------|-------------------|---------|------------------------|------------------------|-----------------------|-----------------------|-----------------|------------------------|------------------------|------------------------|------------------------|---------------|----------------|----------------|
| Units:      |                | µg/L                      | µg/L                      | µg/L              | µg/L    | µg/L                   | µg/L                   | µg/L                  | µg/L                  | µg/L            | µg/L                   | µg/L                   | µg/L                   | µg/L                   | µg/L          | µg/L           | µg/L           |
| TMW-1       | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | 6.2                   | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| TMW-2       | 07/02/2014     | <5.0                      | <5.0                      | <b>6.6</b>        | <5.0    | <5.0                   | <5.0                   | <5.0                  | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| TMW-3       | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | 9.7                   | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| TMW-4       | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | <5.0                  | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| TMW-5       | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | <5.0                  | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| TMW-6       | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | 9.6                   | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| GW-Dupe (6) | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | 8.5                   | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| TMW-7       | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | <5.0                  | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| TMW-8       | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | <5.0                  | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| TMW-9       | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | <5.0                  | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |
| TMW-10      | 07/02/2014     | <5.0                      | <5.0                      | <5.0              | <5.0    | <5.0                   | <5.0                   | <5.0                  | <5.0                  | <5.0            | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <50.0         | <2.0           | <10.0          |

|                        |     |      |     |      |     |     |       |    |     |      |        |     |     |     |    |       |
|------------------------|-----|------|-----|------|-----|-----|-------|----|-----|------|--------|-----|-----|-----|----|-------|
| Residential Tap        | 5   | 0.66 | 5   | 1000 | 5.2 | 70  | 200   | 5  | 5   | 1100 | 0.0065 | 15  | 87  | 410 | 2  | 10000 |
| Resid. Vapor Exposure  | --- | 63   | 110 | ---  | --- | --- | 13000 | 11 | 9   | ---  | ---    | --- | --- | --- | 2  | ---   |
| Com/Ind Vapor Exposure | --- | 310  | 470 | ---  | --- | --- | 54000 | 46 | --- | ---  | ---    | --- | --- | --- | 35 | ---   |

**Table 4-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID   | Date Collected | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Benzyl alcohol | 4-Bromophenyl/phenyl ether | Butylbenzylphthalate | 4-Chloro-3-methylphenol | 4-Chloroaniline | bis(2-Chloroethoxy)methane | bis(2-Chloroethyl) ether | bis(2chloro(1methyl)ethyl) ether | 2-Chloronaphthalene |
|-------------|----------------|--------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|----------------|----------------------------|----------------------|-------------------------|-----------------|----------------------------|--------------------------|----------------------------------|---------------------|
| Units:      |                | µg/L         | µg/L           | µg/L       | µg/L               | µg/L           | µg/L                 | µg/L                 | µg/L                 | µg/L           | µg/L                       | µg/L                 | µg/L                    | µg/L            | µg/L                       | µg/L                     | µg/L                             | µg/L                |
| TMW-1       | 07/02/2014     | <10.3        | <10.3          | <10.3      | <10.3              | <10.3          | <10.3                | <10.3                | <10.3                | <20.6          | <10.3                      | <10.3                | <20.6                   | <20.6           | <10.3                      | <10.3                    | <5.2                             | <10.3               |
| TMW-2       | 07/02/2014     | <10.4        | <10.4          | <10.4      | <10.4              | <10.4          | <10.4                | <10.4                | <10.4                | <20.8          | <10.4                      | <10.4                | <20.8                   | <20.8           | <10.4                      | <10.4                    | <5.2                             | <10.4               |
| TMW-3       | 07/02/2014     | <10.3        | <10.3          | <10.3      | <10.3              | <10.3          | <10.3                | <10.3                | <10.3                | <20.6          | <10.3                      | <10.3                | <20.6                   | <20.6           | <10.3                      | <10.3                    | <5.2                             | <10.3               |
| TMW-4       | 07/02/2014     | <10.3        | <10.3          | <10.3      | <10.3              | <10.3          | <10.3                | <10.3                | <10.3                | <20.6          | <10.3                      | <10.3                | <20.6                   | <20.6           | <10.3                      | <10.3                    | <5.2                             | <10.3               |
| TMW-5       | 07/02/2014     | <10.4        | <10.4          | <10.4      | <10.4              | <10.4          | <10.4                | <10.4                | <10.4                | <20.8          | <10.4                      | <10.4                | <20.8                   | <20.8           | <10.4                      | <10.4                    | <5.2                             | <10.4               |
| TMW-6       | 07/02/2014     | <10.8        | <10.8          | <10.8      | <10.8              | <10.8          | <10.8                | <10.8                | <10.8                | <21.5          | <10.8                      | <10.8                | <21.5                   | <21.5           | <10.8                      | <10.8                    | <5.4                             | <10.8               |
| GW-Dupe (6) | 07/02/2014     | <10.5        | <10.5          | <10.5      | <10.5              | <10.5          | <10.5                | <10.5                | <10.5                | <21.1          | <10.5                      | <10.5                | <21.1                   | <21.1           | <10.5                      | <10.5                    | <5.3                             | <10.5               |
| TMW-7       | 07/02/2014     | <10.3        | <10.3          | <10.3      | <10.3              | <10.3          | <10.3                | <10.3                | <10.3                | <20.6          | <10.3                      | <10.3                | <20.6                   | <20.6           | <10.3                      | <10.3                    | <5.2                             | <10.3               |
| TMW-8       | 07/02/2014     | <10.3        | <10.3          | <10.3      | <10.3              | <10.3          | <10.3                | <10.3                | <10.3                | <20.6          | <10.3                      | <10.3                | <20.6                   | <20.6           | <10.3                      | <10.3                    | <5.2                             | <10.3               |
| TMW-9       | 07/02/2014     | <10.0        | <10.0          | <10.0      | <10.0              | <10.0          | <10.0                | <10.0                | <10.0                | <20.0          | <10.0                      | <10.0                | <20.0                   | <20.0           | <10.0                      | <10.0                    | <5.0                             | <10.0               |
| TMW-10      | 07/02/2014     | <10.3        | <10.3          | <10.3      | <10.3              | <10.3          | <10.3                | <10.3                | <10.3                | <20.6          | <10.3                      | <10.3                | <20.6                   | <20.6           | <10.3                      | <10.3                    | <5.2                             | <10.3               |

|                        |     |     |      |      |     |      |     |     |      |     |     |      |     |     |      |     |     |
|------------------------|-----|-----|------|------|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|
| Residential Tap        | 400 | --- | 1300 | 0.29 | 0.2 | 0.29 | --- | 2.9 | 1500 | --- | 140 | 1100 | 3.2 | 46  | 0.12 | 3.1 | 550 |
| Resjd. Vapor Exposure  | --- | --- | ---  | ---  | --- | ---  | --- | --- | ---  | --- | --- | ---  | --- | --- | ---  | --- | --- |
| Com/Ind Vapor Exposure | --- | --- | ---  | ---  | --- | ---  | --- | --- | ---  | --- | --- | ---  | --- | --- | ---  | --- | --- |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

N/A N/A entries indicate that the sample was not analyzed for a particular constituent.

24.1 Detected, no SL exceedance

**24.1** Exceeds Residential Tap SL

**24.1** Exceeds Residential Vapor Exposure SL

**24.1** Exceeds Commercial/Industrial Vapor Exposure SL

**Table 4-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID                     | Date Collected | 2-Chlorophenol | 4-Chlorophenylphenyl ether | Chrysene | Dibenz(a,h)anthracene | Dibenzofuran | 3,3'-Dichlorobenzidine | 2,4-Dichlorophenol | Diethylphthalate | 2,4-Dimethylphenol | Dimethylphthalate | Di-n-butylphthalate | 4,6-Dinitro-2-methylphenol | 2,4-Dinitrophenol | 2,4-Dinitrotoluene | 2,6-Dinitrotoluene | Di-n-octylphthalate | bis(2-Ethylhexyl)phthalate |
|-------------------------------|----------------|----------------|----------------------------|----------|-----------------------|--------------|------------------------|--------------------|------------------|--------------------|-------------------|---------------------|----------------------------|-------------------|--------------------|--------------------|---------------------|----------------------------|
|                               |                | Units:         | µg/L                       | µg/L     | µg/L                  | µg/L         | µg/L                   | µg/L               | µg/L             | µg/L               | µg/L              | µg/L                | µg/L                       | µg/L              | µg/L               | µg/L               | µg/L                | µg/L                       |
| TMW-1                         | 07/02/2014     | <10.3          | <10.3                      | <10.3    | <10.3                 | <10.3        | <20.6                  | <10.3              | <10.3            | <10.3              | <10.3             | <10.3               | <51.5                      | <51.5             | <10.3              | <10.3              | <10.3               | <5.2                       |
| TMW-2                         | 07/02/2014     | <10.4          | <10.4                      | <10.4    | <10.4                 | <10.4        | <20.8                  | <10.4              | <10.4            | <10.4              | <10.4             | <10.4               | <52.1                      | <52.1             | <10.4              | <10.4              | <10.4               | <5.2                       |
| TMW-3                         | 07/02/2014     | <10.3          | <10.3                      | <10.3    | <10.3                 | <10.3        | <20.6                  | <10.3              | <10.3            | <10.3              | <10.3             | <10.3               | <51.5                      | <51.5             | <10.3              | <10.3              | <10.3               | <5.2                       |
| TMW-4                         | 07/02/2014     | <10.3          | <10.3                      | <10.3    | <10.3                 | <10.3        | <20.6                  | <10.3              | <10.3            | <10.3              | <10.3             | <10.3               | <51.5                      | <51.5             | <10.3              | <10.3              | <10.3               | <5.2                       |
| TMW-5                         | 07/02/2014     | <10.4          | <10.4                      | <10.4    | <10.4                 | <10.4        | <20.8                  | <10.4              | <10.4            | <10.4              | <10.4             | <10.4               | <52.1                      | <52.1             | <10.4              | <10.4              | <10.4               | <5.2                       |
| TMW-6                         | 07/02/2014     | <10.8          | <10.8                      | <10.8    | <10.8                 | <10.8        | <21.5                  | <10.8              | <10.8            | <10.8              | <10.8             | <10.8               | <53.8                      | <53.8             | <10.8              | <10.8              | <10.8               | <5.4                       |
| GW-Dupe (6)                   | 07/02/2014     | <10.5          | <10.5                      | <10.5    | <10.5                 | <10.5        | <21.1                  | <10.5              | <10.5            | <10.5              | <10.5             | <10.5               | <52.6                      | <52.6             | <10.5              | <10.5              | <10.5               | <5.3                       |
| TMW-7                         | 07/02/2014     | <10.3          | <10.3                      | <10.3    | <10.3                 | <10.3        | <20.6                  | <10.3              | <10.3            | <10.3              | <10.3             | <10.3               | <51.5                      | <51.5             | <10.3              | <10.3              | <10.3               | <5.2                       |
| TMW-8                         | 07/02/2014     | <10.3          | <10.3                      | <10.3    | <10.3                 | <10.3        | <20.6                  | <10.3              | <10.3            | <10.3              | <10.3             | <10.3               | <51.5                      | <51.5             | <10.3              | <10.3              | <10.3               | <5.2                       |
| TMW-9                         | 07/02/2014     | <10.0          | <10.0                      | <10.0    | <10.0                 | <10.0        | <20.0                  | <10.0              | <10.0            | <10.0              | <10.0             | <10.0               | <50.0                      | <50.0             | <10.0              | <10.0              | <10.0               | <5.0                       |
| TMW-10                        | 07/02/2014     | <10.3          | <10.3                      | <10.3    | <10.3                 | <10.3        | <20.6                  | <10.3              | <10.3            | <10.3              | <10.3             | <10.3               | <51.5                      | <51.5             | <10.3              | <10.3              | <10.3               | <5.2                       |
| <b>Residential Tap</b>        |                | 71             | ---                        | 29       | 0.029                 | 5.8          | 1.1                    | 35                 | 11000            | 270                | ---               | 670                 | 1.2                        | 30                | 2                  | 0.42               | 160                 | 6                          |
| <b>Resjd. Vapor Exposure</b>  |                | ---            | ---                        | ---      | ---                   | ---          | ---                    | ---                | ---              | ---                | ---               | ---                 | ---                        | ---               | ---                | ---                | ---                 | ---                        |
| <b>Com/Ind Vapor Exposure</b> |                | ---            | ---                        | ---      | ---                   | ---          | ---                    | ---                | ---              | ---                | ---               | ---                 | ---                        | ---               | ---                | ---                | ---                 | ---                        |

**Table 4-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID                     | Date Collected | Fluoranthene | Fluorene | Hexachloro-1,3-butadiene | Hexachlorobenzene | Hexachlorocyclopentadiene | Hexachloroethane | Indeno(1,2,3-cd)pyrene | Isophorone | 2-Methylnaphthalene | 2-Methylphenol(o-Cresol) | 3&4-Methylphenol(m&p Cresol) | Naphthalene | 2-Nitroaniline | 3-Nitroaniline | 4-Nitroaniline | Nitrobenzene | 2-Nitrophenol |
|-------------------------------|----------------|--------------|----------|--------------------------|-------------------|---------------------------|------------------|------------------------|------------|---------------------|--------------------------|------------------------------|-------------|----------------|----------------|----------------|--------------|---------------|
|                               |                | Units:       | µg/L     | µg/L                     | µg/L              | µg/L                      | µg/L             | µg/L                   | µg/L       | µg/L                | µg/L                     | µg/L                         | µg/L        | µg/L           | µg/L           | µg/L           | µg/L         | µg/L          |
| TMW-1                         | 07/02/2014     | <10.3        | <10.3    | <5.2                     | <10.3             | <20.6                     | <10.3            | <10.3                  | <10.3      | <10.3               | <10.3                    | <20.6                        | <5.2        | <51.5          | <51.5          | <51.5          | <10.3        | <10.3         |
| TMW-2                         | 07/02/2014     | <10.4        | <10.4    | <5.2                     | <10.4             | <20.8                     | <10.4            | <10.4                  | <10.4      | <10.4               | <10.4                    | <20.8                        | <5.2        | <52.1          | <52.1          | <52.1          | <10.4        | <10.4         |
| TMW-3                         | 07/02/2014     | <10.3        | <10.3    | <5.2                     | <10.3             | <20.6                     | <10.3            | <10.3                  | <10.3      | <10.3               | <10.3                    | <20.6                        | <5.2        | <51.5          | <51.5          | <51.5          | <10.3        | <10.3         |
| TMW-4                         | 07/02/2014     | <10.3        | <10.3    | <5.2                     | <10.3             | <20.6                     | <10.3            | <10.3                  | <10.3      | <10.3               | <10.3                    | <20.6                        | <5.2        | <51.5          | <51.5          | <51.5          | <10.3        | <10.3         |
| TMW-5                         | 07/02/2014     | <10.4        | <10.4    | <5.2                     | <10.4             | <20.8                     | <10.4            | <10.4                  | <10.4      | <10.4               | <10.4                    | <20.8                        | <5.2        | <52.1          | <52.1          | <52.1          | <10.4        | <10.4         |
| TMW-6                         | 07/02/2014     | <10.8        | <10.8    | <5.4                     | <10.8             | <21.5                     | <10.8            | <10.8                  | <10.8      | <10.8               | <10.8                    | <21.5                        | <5.4        | <53.8          | <53.8          | <53.8          | <10.8        | <10.8         |
| GW-Dupe (6)                   | 07/02/2014     | <10.5        | <10.5    | <5.3                     | <10.5             | <21.1                     | <10.5            | <10.5                  | <10.5      | <10.5               | <10.5                    | <21.1                        | <5.3        | <52.6          | <52.6          | <52.6          | <10.5        | <10.5         |
| TMW-7                         | 07/02/2014     | <10.3        | <10.3    | <5.2                     | <10.3             | <20.6                     | <10.3            | <10.3                  | <10.3      | <10.3               | <10.3                    | <20.6                        | <5.2        | <51.5          | <51.5          | <51.5          | <10.3        | <10.3         |
| TMW-8                         | 07/02/2014     | <10.3        | <10.3    | <5.2                     | <10.3             | <20.6                     | <10.3            | <10.3                  | <10.3      | <10.3               | <10.3                    | <20.6                        | <5.2        | <51.5          | <51.5          | <51.5          | <10.3        | <10.3         |
| TMW-9                         | 07/02/2014     | <10.0        | <10.0    | <5.0                     | <10.0             | <20.0                     | <10.0            | <10.0                  | <10.0      | <10.0               | <10.0                    | <20.0                        | <5.0        | <50.0          | <50.0          | <50.0          | <10.0        | <10.0         |
| TMW-10                        | 07/02/2014     | <10.3        | <10.3    | <5.2                     | <10.3             | <20.6                     | <10.3            | <10.3                  | <10.3      | <10.3               | <10.3                    | <20.6                        | <5.2        | <51.5          | <51.5          | <51.5          | <10.3        | <10.3         |
| <b>Residential Tap</b>        |                | 630          | 220      | 2.6                      | 1                 | 50                        | 5.1              | 0.29                   | 670        | 27                  | 720                      | 720                          | 1.4         | 150            | ---            | 33             | 1.2          | ---           |
| <b>Resjd. Vapor Exposure</b>  |                | ---          | ---      | ---                      | ---               | ---                       | ---              | ---                    | ---        | ---                 | ---                      | ---                          | 91          | ---            | ---            | ---            | ---          | ---           |
| <b>Com/Ind Vapor Exposure</b> |                | ---          | ---      | ---                      | ---               | ---                       | ---              | ---                    | ---        | ---                 | ---                      | ---                          | 460         | ---            | ---            | ---            | ---          | ---           |



**Table 4-B**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID   | Date Collected | 4-Nitrophenol | N-Nitroso-di-n-propylamine | N-Nitrosodiphenylamine | Pentachlorophenol | Phenanthrene | Phenol | Pyrene | 2,4,5-Trichlorophenol | 2,4,6-Trichlorophenol |
|-------------|----------------|---------------|----------------------------|------------------------|-------------------|--------------|--------|--------|-----------------------|-----------------------|
| Units:      |                | µg/L          | µg/L                       | µg/L                   | µg/L              | µg/L         | µg/L   | µg/L   | µg/L                  | µg/L                  |
| TMW-1       | 07/02/2014     | <51.5         | <10.3                      | <10.3                  | <51.5             | <10.3        | <10.3  | <10.3  | <10.3                 | <10.3                 |
| TMW-2       | 07/02/2014     | <52.1         | <10.4                      | <10.4                  | <52.1             | <10.4        | <10.4  | <10.4  | <10.4                 | <10.4                 |
| TMW-3       | 07/02/2014     | <51.5         | <10.3                      | <10.3                  | <51.5             | <10.3        | <10.3  | <10.3  | <10.3                 | <10.3                 |
| TMW-4       | 07/02/2014     | <51.5         | <10.3                      | <10.3                  | <51.5             | <10.3        | <10.3  | <10.3  | <10.3                 | <10.3                 |
| TMW-5       | 07/02/2014     | <52.1         | <10.4                      | <10.4                  | <52.1             | <10.4        | <10.4  | <10.4  | <10.4                 | <10.4                 |
| TMW-6       | 07/02/2014     | <53.8         | <10.8                      | <10.8                  | <53.8             | <10.8        | <10.8  | <10.8  | <10.8                 | <10.8                 |
| GW-Dupe (6) | 07/02/2014     | <52.6         | <10.5                      | <10.5                  | <52.6             | <10.5        | <10.5  | <10.5  | <10.5                 | <10.5                 |
| TMW-7       | 07/02/2014     | <51.5         | <10.3                      | <10.3                  | <51.5             | <10.3        | <10.3  | <10.3  | <10.3                 | <10.3                 |
| TMW-8       | 07/02/2014     | <51.5         | <10.3                      | <10.3                  | <51.5             | <10.3        | <10.3  | <10.3  | <10.3                 | <10.3                 |
| TMW-9       | 07/02/2014     | <50.0         | <10.0                      | <10.0                  | <50.0             | <10.0        | <10.0  | <10.0  | <10.0                 | <10.0                 |
| TMW-10      | 07/02/2014     | <51.5         | <10.3                      | <10.3                  | <51.5             | <10.3        | <10.3  | <10.3  | <10.3                 | <10.3                 |

|                        |     |       |     |     |     |      |     |     |     |
|------------------------|-----|-------|-----|-----|-----|------|-----|-----|-----|
| Residential Tap        | --- | 0.093 | 100 | 1   | --- | 4500 | 87  | 890 | 9   |
| Resid. Vapor Exposure  | --- | ---   | --- | --- | --- | ---  | --- | --- | --- |
| Com/Ind Vapor Exposure | --- | ---   | --- | --- | --- | ---  | --- | --- | --- |

**Table 4-C**  
**Total Metal Concentrations in Groundwater**  
**Former Sibley/Accucast Foundry**  
 220 W. Eckman Street  
 South Bend, IN 46614  
 Prepared by Weaver Boos Consultants

| Sample ID   | Date Collected | Antimony | Arsenic | Chromium | Cobalt | Iron | Lead  | Selenium | Thallium |
|-------------|----------------|----------|---------|----------|--------|------|-------|----------|----------|
| Units:      |                | µg/L     | µg/L    | µg/L     | µg/L   | µg/L | µg/L  | µg/L     | µg/L     |
| TMW-1       | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 2770 | <10.0 | <10.0    | <10.0    |
| TMW-2       | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 1430 | <10.0 | <10.0    | <10.0    |
| TMW-3       | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 326  | <10.0 | <10.0    | <10.0    |
| TMW-4       | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 1550 | <10.0 | <10.0    | <10.0    |
| TMW-5       | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 1960 | <10.0 | <10.0    | <10.0    |
| TMW-6       | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 273  | <10.0 | <10.0    | <10.0    |
| GW-Dupe (6) | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 287  | <10.0 | <10.0    | <10.0    |
| TMW-7       | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 911  | <10.0 | <10.0    | <10.0    |
| TMW-8       | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 1640 | <10.0 | <10.0    | <10.0    |
| TMW-9       | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 911  | <10.0 | <10.0    | <10.0    |
| TMW-10      | 07/02/2014     | <6.0     | <10.0   | <10.0    | <10.0  | 711  | <10.0 | <10.0    | <10.0    |

|                        |     |     |     |     |       |     |     |     |
|------------------------|-----|-----|-----|-----|-------|-----|-----|-----|
| Residential Tap        | 6   | 10  | 100 | 4.7 | 11000 | 2.4 | 50  | 2   |
| Resid. Vapor Exposure  | --- | --- | --- | --- | ---   | --- | --- | --- |
| Com/Ind Vapor Exposure | --- | --- | --- | --- | ---   | --- | --- | --- |

Screening Levels are from Appendix A of the 2014 IDEM Remediation Closure Guide

N/A N/A entries indicate that the sample was not analyzed for a particular constituent.

24.1 Detected, no SL exceedance

**24.1** Exceeds Residential Tap SL

**24.1** Exceeds Residential Vapor Exposure SL

**24.1** Exceeds Commercial/Industrial Vapor Exposure SL

# **APPENDIX A**

Historical Sampling Data Summary

**Table A-1**  
On-Site Historical Surface Soil Data (Less than 10 ft Below Ground Surface)  
Former Sibley/Accucast Foundry Site

**SURFACE SOIL DATA**  
**0 to 10 ft Below Ground Surface**

| Sample I.D.  | Sample Date                        | Data Source     | Sample Interval Top (ft) | Sample Interval Bottom (ft) | 2-Butanone (ug/kg) | Methylene Chloride (ug/kg) | 1,1,1-Trichloroethane (ug/kg) | Aluminum (mg/kg) | Antimony (mg/kg) | Arsenic (mg/kg) | Barium (mg/kg) | Beryllium (mg/kg) | Cadmium (mg/kg) | Calcium (mg/kg) | Chromium <sup>6</sup> (mg/kg) | Cobalt (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Magnesium (mg/kg) | Manganese (mg/kg) | Mercury (mg/kg) | Nickel (mg/kg) | Potassium (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Sodium (mg/kg) | Thallium (mg/kg) | Vanadium (mg/kg) | Zinc (mg/kg) |
|--|------------------------------------|-----------------|--------------------------|-----------------------------|--------------------|----------------------------|-------------------------------|------------------|------------------|-----------------|----------------|-------------------|-----------------|-----------------|-------------------------------|----------------|----------------|--------------|--------------|-------------------|-------------------|-----------------|----------------|-------------------|------------------|----------------|----------------|------------------|------------------|--------------|
| S10 - ME1LT9   | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           |                    |                            |                               | 3,300            | 9.9              | 3.3             | 44.8           | 0.29              | 1.1             | 9,890           | 82.8                          | 3.2            | 163            | 53,200       | 34.6         | 5,220             | 616               | 0.07            | 55.2           | 392               | 7.6              | 0.11           | 478            | 2                | 10.6             | 85.7         |
| S11 - ME1LW0   | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           |                    |                            |                               | 4,500            | 7.8              | 6.1             | 82.4           | 0.36              | 2.3             | 4,930           | 40.4                          | 3.5            | 151            | 65,400       | 251          | 2,280             | 1100              | 0.11            | 35.3           | 456               | 8.14             | 0.78           | 275            | 2.4              | 15.8             | 436          |
| S12 - ME1LW1   | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           |                    |                            |                               | 4,610            | 6                | 6.1             | 73.2           | 0.4               | 2.5             | 5,580           | 35.2                          | 3.6            | 97.5           | 36,800       | 229          | 2,590             | 1060              | 0.12            | 33.3           | 477               | 8.1              | 0.84           | 255            | 2.3              | 15.2             | 439          |
| S13 - ME1LW2   | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           |                    |                            |                               | 2,580            | 15.5             | 205             | 42.8           | 0.15              | 1.2             | 6,760           | 269                           | 6.5            | 313            | 249,000      | 139          | 1,580             | 1050              | 0.05            | 132            | 240               | 8.2              | 0.17           | 336            | 4.1              | 16.3             | 79.3         |
| SB-1   | 9/23/2004                          | SG, Jan. 2008   | 7.5                      | 10                          | 10                 | 0                          | 22                            | 1                | 9                | 1               | 23             | 1                 | 0.096           |                 | 9.7                           |                |                |              | 6.8          |                   |                   | 0.037           |                |                   | 1.4              | 0              | 0.48           |                  |                  |              |
| SB-4   | 5/31/2006                          | SG, Jan. 2008   | 5                        | 7.5                         | 11                 | 0                          | 21                            | 0                | 5.3              | 0               | 17             | 1                 | 0.5             |                 | 7                             |                |                |              | 5.9          |                   |                   | 0.043           |                |                   | 5                | 0              | 0.5            |                  |                  |              |
| SB-5   | 5/31/2006                          | SG, Jan. 2008   | 2.5                      | 5                           | 11                 | 0                          | 21                            | 0                | 5.4              | 0               | 12             | 1                 | 0.5             |                 | 3.5                           |                |                |              | 2.6          |                   |                   | 0.042           |                |                   | 5                | 0              | 0.5            |                  |                  |              |
| SB-8   | 5/31/2006                          | SG, Jan. 2008   | 2.5                      | 5                           | 11                 | 0                          | 21                            | 0                | 5.3              | 0               | 30             | 1                 | 0.5             |                 | 4.9                           |                |                |              | 8.2          |                   |                   | 0.044           |                |                   | 5                | 0              | 0.5            |                  |                  |              |
| SB-9   | 5/31/2006                          | SG, Jan. 2008   | 5                        | 7.5                         | 11                 | 0                          | 22                            | 0                | 5.5              | 0               | 36             | 1                 | 0.5             |                 | 6.8                           |                |                |              | 6.7          |                   |                   | 0.045           |                |                   | 5                | 0              | 0.5            |                  |                  |              |
| SS-1   | 6/11/2008                          | SG, Jul. 2008   | 0                        | 0.5                         |                    |                            |                               |                  |                  |                 | 90             | 1                 | 0.12            |                 | 15                            |                |                |              | 26           |                   |                   | 1.8             |                |                   | 0.61             | 0              | 0.047          |                  |                  |              |
| SS-2   | 6/11/2008                          | SG, Jul. 2008   | 0                        | 0.5                         |                    |                            |                               |                  |                  | 9.3             | 82             | 1                 | 0.12            |                 | 15                            |                |                |              | 22           |                   |                   | 0.044           |                |                   | 1.7              | 0              | 0.58           |                  |                  |              |
| SS-3   | 6/11/2008                          | SG, Jul. 2008   | 0                        | 0.5                         |                    |                            |                               |                  |                  | 9.7             | 88             | 1                 | 0.12            |                 | 15                            |                |                |              | 24           |                   |                   | 0.045           |                |                   | 1.8              | 0              | 0.60           |                  |                  |              |
| SS-4 (Dup)   | 6/11/2008                          | SG, Jul. 2008   | 0                        | 0.5                         |                    |                            |                               |                  |                  | 8.6             | 86             | 1                 | 0.13            |                 | 16                            |                |                |              | 30           |                   |                   | 0.053           |                |                   | 2                | 0              | 0.67           |                  |                  |              |
| SS-4 (Dup)   | 6/11/2008                          | SG, Jul. 2008   | 0                        | 0.5                         |                    |                            |                               |                  |                  | 11              | 89             | 1                 | 0.14            |                 | 16                            |                |                |              | 32           |                   |                   | 0.057           |                |                   | 2.1              | 0              | 0.57           |                  |                  |              |
| BACKGROUND   | 3 X ME1LW6 Conc. (IDEM, Sep. 2003) |                 | 0                        | 1                           |                    |                            |                               | 16,200           | 4.20             | 9.90            | 225.00         | 1.53              | 1.20            | 4,500.00        | 23.70                         | 11.10          | 27.30          | 22,920.00    | 82.20        | 2,913.00          | 3,030.00          | 0.30            | 29.10          | 1,737.00          | 26.10            | 7.50           | 477.00         | 4.20             | 30.60            | 154.20       |
| <b>RCG Residential Soil Direct Contact Screening Level:</b>      |                                    |                 |                          |                             | 28,000,000         | 500,000                    | 640,000                       | 100,000          | 43               | 8.5             | 21,000         | 220               | 98              |                 | 100,000 Cr III / 4.1 Cr VI    | 32             | 4,300          | 77,000       | 400          |                   | 2,500             | 3.1             | 2,100          |                   | 550              | 550            |                | 1.1              | 550              | 32,000       |
| <b>RCG Commercial/Industrial Direct Contact Screening Level:</b> |                                    |                 |                          |                             | 28,000,000         | 3,100,000                  | 640,000                       | 100,000          | 410              | 24              | 100,000        | 2,000             | 800             |                 | 100,000 Cr III / 56 Cr VI     | 300            | 41,000         | 100,000      | 800          |                   | 23,000            | 3.1             | 20,000         |                   | 5,100            | 510            |                | 10               | 5,100            | 100,000      |
| <b>RCG Soil Migration to Groundwater Screening Level:</b>        |                                    |                 |                          |                             | 21,000             | 25                         | 1,400                         | 480,000          | 5.4              | 5.9             | 1,700          | 63                | 7.5             |                 | 1,000,000 Cr III / 0.12 Cr VI | 4.3            | 920            | 5,600        | 270          |                   | 420               | 2.1             | 390            |                   | 5.3              | 12             |                | 2.9              | 1,300            | 5,900        |

- *Italics* Indicates Concentrations Greater than Residential Soil Direct Screening Level (2014)  
- Underline Indicates Concentrations Greater than Commercial/Industrial Screening Level (2014)  
- **Bold** Indicates Concentrations Greater than Residential Soil to Groundwater Migration Screening Level (2014)

Notes:  
a - Concentration compared with Screening Levels for Cr III as insoluble salts.  
Flag: 0 Indicates analyte not detected above its reporting limit. 1 indicates that the analyte was detected above its reporting limit.  
IDEM, Sep. 2003 = Indiana Department of Environmental Management Screening Site Inspection Report for Sibley Machine and Foundry (USEPA ID: IND984892521).  
SG, Jan. 2008 = SESCO Group Further Site Investigation Report.

**Table A-2**  
Historical Subsurface Soil Data (Greater than 10 ft Below Ground Surface)  
Former Sibley/Accucast Foundry Site

**SUBSURFACE SOIL DATA**  
**Greater than 10 ft Below Ground Surface**

| Sample I.D.  | Sample Date | Data Source   | Sample Interval Top (ft) | Sample Interval Bottom (ft) | 2-Butanone (ug/kg) |      | Methylene Chloride (ug/kg) |      | 1,1,1-Trichloroethane (ug/kg) |      | Arsenic (mg/kg) |      | Barium (mg/kg) |      | Cadmium (mg/kg) |      | Chromium <sup>a</sup> (mg/kg) |      | Lead (mg/kg) |      | Mercury (mg/kg) |      | Selenium (mg/kg) |      | Silver (mg/kg) |      |
|--|-------------|---------------|--------------------------|-----------------------------|--------------------|------|----------------------------|------|-------------------------------|------|-----------------|------|----------------|------|-----------------|------|-------------------------------|------|--------------|------|-----------------|------|------------------|------|----------------|------|
|  |             |               |                          |                             |                    | Flag |                            | Flag |                               | Flag |                 | Flag |                | Flag |                 | Flag |                               | Flag |              | Flag |                 | Flag |                  | Flag |                | Flag |
| SB-2   | 9/23/2004   | SG, Jan. 2008 | 12.5                     | 15                          | 10                 | 0    | 20                         | 0    | 5.0                           | 0    | 1.2             | 1    | 4.4            | 1    | 0.09            | 0    | 2.5                           | 1    | 3.3          | 1    | 0.036           | 0    | 1.4              | 0    | 0.45           | 0    |
| SB-3   | 5/31/2006   | SG, Jan. 2008 | 15                       | 17.5                        | 10                 | 0    | 21                         | 0    | 5.2                           | 0    | 5.0             | 0    | 5.0            | 1    | 0.50            | 0    | 10.0                          | 1    | 2.5          | 0    | 0.044           | 0    | 5.0              | 0    | 0.50           | 0    |
| SB-4   | 11/5/2007   | SG, Jan. 2008 | 10                       | 12.5                        | 11                 | 0    | 21                         | 0    | 5.3                           | 0    | 2.3             | 1    | 12.0           | 1    | 0.50            | 1    | 5.1                           | 1    | 6.4          | 1    | 0.043           | 0    | 1.6              | 0    | 0.52           | 0    |
| SB-4   | 11/5/2007   | SG, Jan. 2008 | 22.5                     | 25                          | 11                 | 0    | <b>27</b>                  | 1    | 5.6                           | 0    | 1.4             | 1    | 4.5            | 1    | 0.20            | 1    | 4.4                           | 1    | 2.5          | 1    | 0.043           | 0    | 1.5              | 0    | 0.52           | 0    |
| SB-5   | 11/5/2007   | SG, Jan. 2008 | 12.5                     | 15                          | 11                 | 0    | 21                         | 0    | 5.3                           | 0    | 2.1             | 1    | 14.0           | 1    | 0.60            | 1    | 8.0                           | 1    | 6.0          | 1    | 0.040           | 0    | 1.5              | 0    | 0.52           | 0    |
| SB-5   | 11/5/2007   | SG, Jan. 2008 | 22.5                     | 25                          | 11                 | 0    | 22                         | 0    | 5.4                           | 0    | 0.5             | 0    | 3.3            | 1    | 0.10            | 1    | 1.9                           | 1    | 0.8          | 1    | 0.039           | 0    | 1.6              | 0    | 0.52           | 0    |
| SB-6   | 5/30/2006   | SG, Jan. 2008 | 15                       | 17.5                        | 11                 | 0    | 22                         | 0    | 5.4                           | 0    | 5.0             | 0    | 10.0           | 1    | 0.50            | 0    | 13.0                          | 1    | 4.1          | 1    | 0.045           | 0    | 5.0              | 0    | 0.50           | 0    |
| SB-7   | 5/30/2006   | SG, Jan. 2008 | 10                       | 12.5                        | 11                 | 0    | 22                         | 0    | 5.4                           | 0    | 5.0             | 0    | 9.6            | 1    | 0.50            | 0    | 7.1                           | 1    | 12.0         | 1    | 0.045           | 0    | 5.0              | 0    | 0.50           | 0    |
| SB-8   | 11/5/2007   | SG, Jan. 2008 | 10                       | 12.5                        | 14                 | 1    | 21                         | 0    | 5.3                           | 0    | 2.6             | 1    | 17.0           | 1    | 0.10            | 0    | 7.3                           | 1    | 17.0         | 1    | 0.044           | 0    | 1.6              | 0    | 0.52           | 0    |
| SB-8   | 11/5/2007   | SG, Jan. 2008 | 22.5                     | 25                          | 11                 | 0    | 22                         | 0    | 5.6                           | 0    | 2.3             | 1    | 4.7            | 1    | 0.30            | 1    | 4.5                           | 1    | 2.7          | 1    | 0.043           | 0    | 1.6              | 0    | 0.54           | 0    |
| SB-9   | 11/5/2007   | SG, Jan. 2008 | 15                       | 17.5                        | 11                 | 0    | 21                         | 0    | 5.4                           | 0    | 2.3             | 1    | 22.0           | 1    | 0.70            | 1    | 21.0                          | 1    | 5.9          | 1    | 0.038           | 0    | 1.5              | 0    | 0.48           | 0    |
| SB-9   | 11/5/2007   | SG, Jan. 2008 | 22.5                     | 25                          | 12                 | 0    | 25                         | 0    | 6.2                           | 0    | 1.1             | 1    | 4.9            | 1    | 0.30            | 1    | 11.0                          | 1    | 2.6          | 1    | 0.045           | 0    | <b>14.0</b>      | 1    | 0.54           | 0    |
| SB-10  | 5/31/2006   | SG, Jan. 2008 | 15                       | 17.5                        | 12                 | 0    | 24                         | 0    | 5.9                           | 0    | <b>12</b>       | 1    | 21.0           | 1    | 0.50            | 0    | 15.0                          | 1    | 11.0         | 1    | 0.047           | 0    | 5.0              | 0    | 0.50           | 0    |
| Dup (SB-7)   | 5/30/2006   | SG, Jan. 2008 | 10                       | 12.5                        | 11                 | 0    | 21                         | 0    | 5.3                           | 0    | 5.0             | 0    | 4.9            | 1    | 0.50            | 0    | 4.4                           | 1    | 4.9          | 1    | 0.045           | 1    | 5.0              | 0    | 0.50           | 0    |
| Dup (SB-5)   | 11/5/2007   | SG, Jan. 2008 | 12.5                     | 15                          | 11                 | 0    | 21                         | 0    | 5.3                           | 0    | 1.9             | 1    | 13.0           | 1    | 1.00            | 1    | 6.5                           | 1    | 5.2          | 1    | 0.044           | 0    | 1.5              | 0    | 0.52           | 0    |
| <b>RCG Residential Soil Direct Contact Screening Level:</b>      |             |               |                          |                             | 28,000,000         |      | 500,000                    |      | 640,000                       |      | 8.5             |      | 21,000         |      | 98              |      | 100,000 Cr III / 4.1 Cr VI    |      | 400          |      | 3.1             |      | 550              |      | 550            |      |
| <b>RCG Commercial/Industrial Direct Contact Screening Level:</b> |             |               |                          |                             | 28,000,000         |      | 3,100,000                  |      | 640,000                       |      | 24              |      | 100,000        |      | 800             |      | 100,000 Cr III / 56 Cr VI     |      | 800          |      | 3.1             |      | 5,100            |      | 510            |      |
| <b>RCG Soil Migration to Groundwater Screening Level:</b>        |             |               |                          |                             | 21,000             |      | 25                         |      | 1,400                         |      | 5.9             |      | 1,700          |      | 7.5             |      | 1,000,000 Cr III / 0.12 Cr VI |      | 270          |      | 2.1             |      | 5.3              |      | 12             |      |

- *Italics* Indicates Concentrations Greater than Residential Soil Direct Screening Level (2014)  
- Underline Indicates Concentrations Greater than Commercial/Industrial Screening Level (2014)  
- **Bold** Indicates Concentrations Greater than Residential Soil to Groundwater Migration Screening Level (2014)

Notes:  
a - Concentration compared with Screening Levels for Cr III as insoluble salts.  
Flag: 0 Indicates analyte not detected above its reporting limit. 1 indicates that the analyte was detected above its reporting limit.  
IDEM, Sep. 2003 = Indiana Department of Environmental Management Screening Site Inspection Report for Sibley Machine and Foundry (USEPA ID: IND984892521).  
SG, Jan. 2008 = SESCO Group Further Site Investigation Report.

**Table A-3**

Off-Site Historical Surface Soil Data (Less than 10 ft Below Ground Surface)  
Former Sibley/Accucast Foundry Site - Surrounding area only

**SURFACE SOIL DATA**  
**0 to 10 ft Below Ground Surface**

| Sample I.D.  | Sample Date                        | Data Source     | Sample Interval Top (ft) | Sample Interval Bottom (ft) | Aluminum (mg/kg) | Antimony (mg/kg) | Arsenic (mg/kg) | Barium (mg/kg) | Beryllium (mg/kg) | Cadmium (mg/kg) | Calcium (mg/kg) | Chromium <sup>6+</sup> (mg/kg) | Cobalt (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Magnesium (mg/kg) | Manganese (mg/kg) | Mercury (mg/kg) | Nickel (mg/kg) | Potassium (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Sodium (mg/kg) | Thallium (mg/kg) | Vanadium (mg/kg) | Zinc (mg/kg) |         |
|--|------------------------------------|-----------------|--------------------------|-----------------------------|------------------|------------------|-----------------|----------------|-------------------|-----------------|-----------------|--------------------------------|----------------|----------------|--------------|--------------|-------------------|-------------------|-----------------|----------------|-------------------|------------------|----------------|----------------|------------------|------------------|--------------|---------|
| S1 - ME1LT0  | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 5,460            | 2.3              | 3.9             | 89.2           | 0.46              | 1               | 13,500          | 17.5                           | 3.7            | 19.7           | 10,400       | 145          | 3,740             | 482               | 0.07            | 9.9            | 641               | 7.9              | 0.11           | 153            | 1                | 17.9             | 172          |         |
| S2 - ME1LT1  | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 4,540            | 2.2              | 3.9             | 58.9           | 0.35              | 0.67            | 2,220           | 16                             | 3.2            | 13.1           | 7,490        | 104          | 1,090             | 416               | 0.09            | 7.4            | 410               | 8.1              | 2.3            | 184            | 1                | 12               | 95.9         |         |
| S3 - ME1LT2  | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 4,480            | 1.5              | 3.2             | 52.8           | 0.3               | 0.35            | 954             | 7.8                            | 2.9            | 12.3           | 6,700        | 82.6         | 815               | 368               | 0.06            | 6.2            | 363               | 7.8              | 2.2            | 162            | 1                | 11               | 62.3         |         |
| S4 - ME1LT3  | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 4,390            | 2.6              | 22.9            | 104            | 0.47              | 0.69            | 6,240           | 18.9                           | 3              | 17.3           | 7,950        | 117          | 1,770             | 436               | 0.24            | 4.1            | 535               | 8.2              | 0.2            | 253            | 1                | 14               | 142          |         |
| S5 - ME1LT4  | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 5,590            | 2.4              | 5.7             | 65.4           | 0.39              | 0.62            | 18,700          | 12.2                           | 3.7            | 16.8           | 10,500       | 158          | 7,870             | 415               | 0.08            | 9.2            | 929               | 8.3              | 2.4            | 190            | 1                | 15.6             | 125          |         |
| S6 - ME1LT5  | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 8,260            | 2.6              | 5.1             | 129            | 0.48              | 0.71            | 3,510           | 26.6                           | 4.9            | 14.4           | 10,900       | 65.3         | 1,630             | 603               | 0.1             | 10.1           | 934               | 8.6              | 0.09           | 175            | 1                | 19.3             | 115          |         |
| S7 - ME1LT6  | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 5,130            | 2.5              | 4.1             | 294            | 0.31              | 0.71            | 1,530           | 24.2                           | 3.9            | 12.8           | 8,190        | 3,847        | 1,080             | 249               | 0.1             | 7.7            | 663               | 8.3              | 0.07           | 150            | 1                | 12.3             | 251          |         |
| S8 - ME1LT7  | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 5,620            | 2.6              | 3.2             | 119            | 0.36              | 1.1             | 1,600           | 16.8                           | 3.6            | 20.9           | 9,560        | 228          | 8,440             | 546               | 0.75            | 9.7            | 729               | 7.9              | 0.7            | 155            | 1                | 13.2             | 230          |         |
| S9 - ME1LT8  | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 5,110            | 2.1              | 3.2             | 103            | 0.39              | 0.57            | 1,950           | 9.2                            | 3.7            | 15.3           | 7,240        | 68.1         | 870               | 670               | 0.1             | 7.2            | 555               | 8                | 2.3            | 167            | 1                | 11.1             | 102          |         |
| ME1LW3   | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 5,060            | 1.7              | 2.4             | 150.7          | 0.36              | 0.27            | 1,490           | 7                              | 2.7            | 5.8            | 5,730        | 30.9         | 822               | 672               | 0.07            | 5.7            | 476               | 9                | 2.6            | 155            | 1                | 8.8              | 42.5         |         |
| S15 - ME1LW4   | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 4,020            | 1.5              | 2.1             | 44.5           | 0.25              | 0.22            | 1,660           | 6.1                            | 3.1            | 5.3            | 7,430        | 11.8         | 872               | 466               | 0.06            | 6              | 518               | 8.1              | 2.3            | 150            | 1                | 9.9              | 33.7         |         |
| S16 - ME1LW5   | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 5,140            | 3                | 3.9             | 90.6           | 0.4               | 0.88            | 2,170           | 24.5                           | 3.3            | 20.2           | 8,640        | 120          | 1,070             | 641               | 0.1             | 8.5            | 564               | 8.9              | 0.21           | 234            | 1                | 13.6             | 121          |         |
| S17 - ME1LW6   | 6/4/2003                           | IDEM, Sep. 2003 | 0                        | 1                           | 5,400            | 1.4              | 3.3             | 75             | 0.51              | 0.4             | 1,500           | 7.9                            | 3.7            | 9.1            | 7,640        | 27.4         | 971               | 1,010             | 0.1             | 9.7            | 579               | 8.7              | 2.5            | 159            | 1                | 10.2             | 51.4         |         |
| BACKGROUND   | 3 X ME1LW6 Conc. (IDEM, Sep. 2003) |                 | 0                        | 1                           | 16,200.00        | 4.20             | 9.90            | 225.00         | 1.53              | 1.20            | 4,500.00        | 23.70                          | 11.10          | 27.30          | 22,920.00    | 82.20        | 2,913.00          | 3,030.00          | 0.30            | 29.10          | 1,737.00          | 26.10            | 7.50           | 477.00         | 1                | 30.60            | 154.20       |         |
| <b>RCG Residential Soil Direct Contact Screening Level:</b>      |                                    |                 |                          |                             | 100,000          | 43               | 8.5             | 21,000         | 220               | 98              |                 | 100,000 Cr III / 4.1 Cr VI     | 32             | 4,300          | 77,000       | 400          |                   | 2,500             | 3.1             | 2,100          |                   | 550              | 550            |                | 1.1              | 550              | 32,000       |         |
| <b>RCG Commercial/Industrial Direct Contact Screening Level:</b> |                                    |                 |                          |                             | 100,000          | 410              | 24              | 100,000        | 2,000             | 800             |                 | 100,000 Cr III / 56 Cr VI      | 300            | 41,000         | 100,000      | 800          |                   |                   | 23,000          | 3.1            | 20,000            |                  | 5,100          | 510            |                  | 10               | 5,100        | 100,000 |
| <b>RCG Soil Migration to Groundwater Screening Level:</b>        |                                    |                 |                          |                             | 480,000          | 5.4              | 5.9             | 1,700          | 63                | 7.5             |                 | 1,000,000 Cr III / 0.12 Cr VI  | 4.3            | 920            | 5,600        | 270          |                   |                   | 420             | 2.1            | 390               |                  | 5.3            | 12             |                  | 2.9              | 1,300        | 5,900   |

- *Italics* Indicates Concentrations Greater than Residential Soil Direct Screening Level (2014)  
 - Underline Indicates Concentrations Greater than Commercial/Industrial Screening Level (2014)  
 - **Bold** Indicates Concentrations Greater than Residential Soil to Groundwater Migration Screening Level (2014)

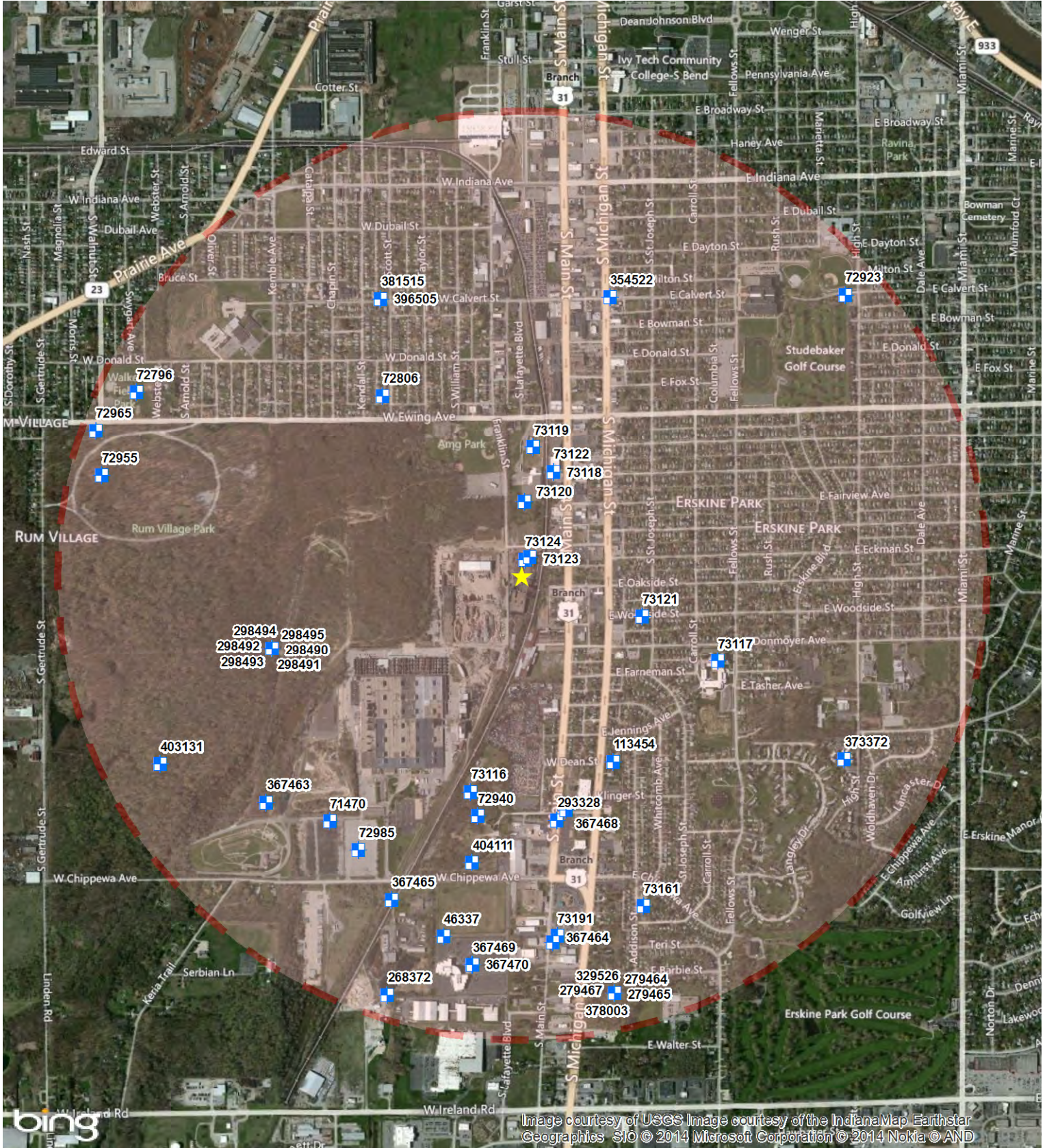
Notes:  
 a - Concentration compared with Screening Levels for Cr III as insoluble salts.  
 Flag: 0 Indicates analyte not detected above its reporting limit. 1 indicates that the analyte was detected above its reporting limit.  
 IDEM, Sep. 2003 = Indiana Department of Environmental Management Screening Site Inspection Report for Sibley Machine and Foundry (USEPA ID: IND984892521).  
 SG, Jan. 2008 = SESCO Group Further Site Investigation Report.

# **APPENDIX B**

Water Well Information

# IDNR Low Capacity Water Wells Former Sibley/Accucast Foundry

220 West Eckman Street, South Bend, IN 46614



Data Source: Indiana Department of Natural Resources, Division of Water, 2013

- ★ Former Sibley/Accucast Foundry
- IDNR Low Capacity Water Wells (< 70 gallons per minute)
- 1 Mile Buffer



0 0.25 0.5 Miles

Image courtesy of USGS Image courtesy of the IndianaMap Earthstar Geographics SIO © 2014 Microsoft Corporation © 2014 Nokia © AND



# IDNR High Capacity Water Wells Former Sibley/Accucast Foundry

220 West Eckman Street, South Bend, IN 46614

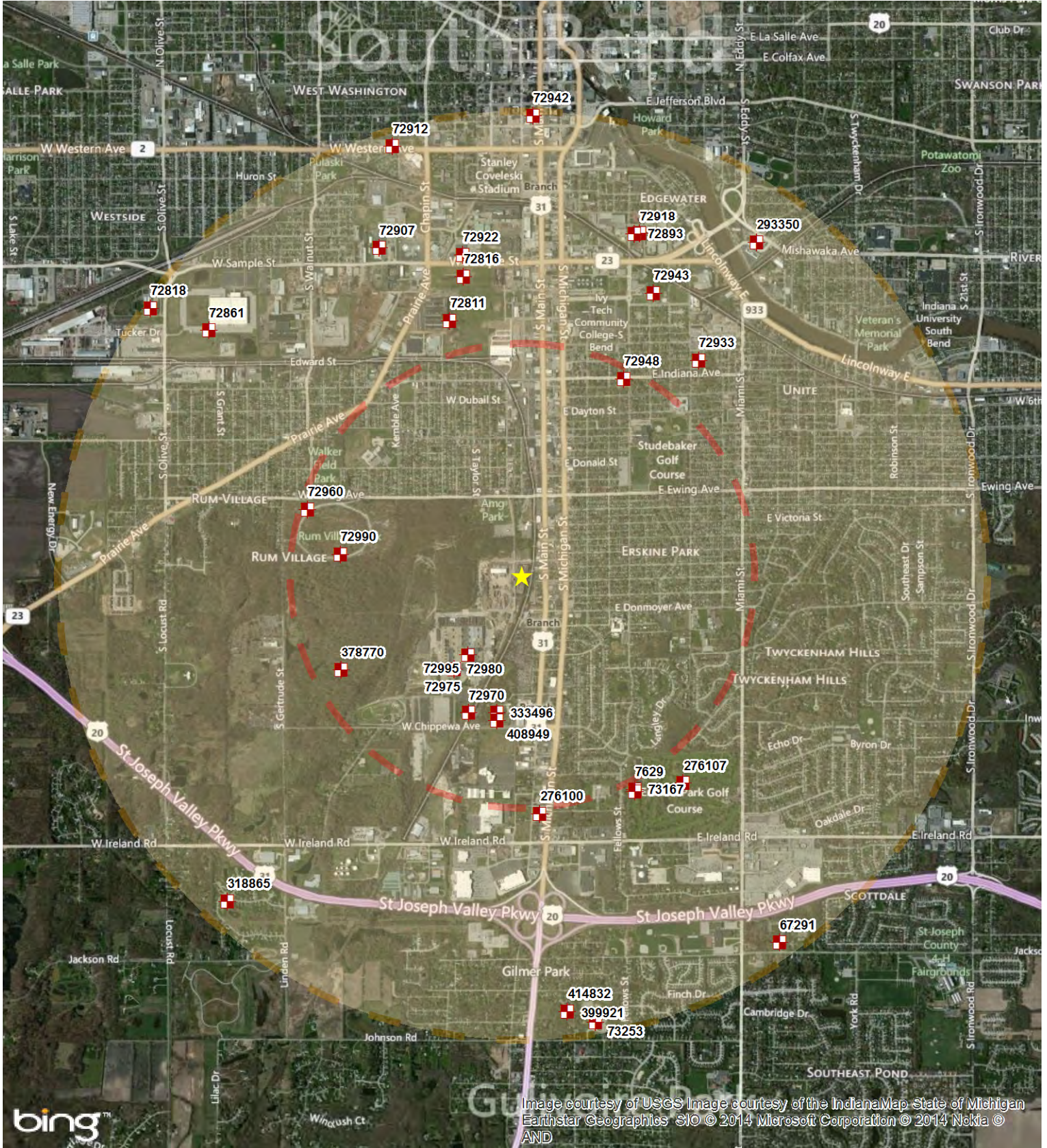
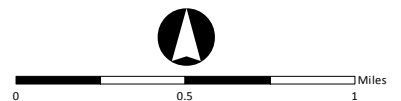


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Data Source: Indiana Department of Natural Resources, Division of Water, 2013

- ★ Former Sibley/Accucast Foundry
- IDNR High Capacity Water Wells (>= 70 gallons per minute)
- 1 Mile Buffer
- 2 Mile Buffer



**Low Capacity Wells (<70 gallons per minute)**  
 Within one mile of the Former Sibley/Accucast Foundry

| Well No. | Well elevation<br>(ft MSL) | Depth to<br>Bedrock (ft) | Pump Rate<br>(gpm) | Screen<br>Length (ft) | Depth to<br>Water (ft) | Length of<br>Well (ft) | Well Owner                     | Address of Owner                      |
|----------|----------------------------|--------------------------|--------------------|-----------------------|------------------------|------------------------|--------------------------------|---------------------------------------|
| 5679     | 0                          | 0                        | 30                 | 5                     | 45                     | 103                    | SOUTH SIDE LITTLE LEAGUE       | ANC PARK, EWING AVE., SOUTH BEND, IN. |
| 46337    | 0                          | 0                        | 40                 | 10                    | 24                     | 112                    | ROYAL RUBBER CO.               | 500 W. CHIPPEWA AV., SOUTH BEND, IN   |
| 71470    | 0                          | 0                        | 40                 | 5                     | 33                     | 97                     | SOUTH SIDE MOBILE HOMES        | 20335 OSBORNE RD, LAKEVILLE, IN       |
| 72796    | 660                        | 0                        | 0                  | 4                     | 0                      | 120                    | CITY OF SOUTH BEND             | SOUTH BEND IN                         |
| 72806    | 0                          | 147                      | 0                  | 0                     | 29                     | 182                    | CITY OF SOUTH BEND             |                                       |
| 72923    | 0                          | 0                        | 10                 | 4                     | 38                     | 64                     | MRS MADILEN KUHARIC            | 57860 RR 2 SOUTH BEND IN              |
| 72940    | 678                        | 0                        | 0                  | 0                     | 32                     | 105                    | CITY WATER DEPT                | SOUTH STATION SOUTH BEND, IN          |
| 72955    | 0                          | 0                        | 0                  | 0                     | 0                      | 192                    | CITY OF SOUTH BEND             |                                       |
| 72965    | 654                        | 0                        | 0                  | 10                    | 67                     | 110                    | CITY OF SOUTH BEND             | 224 NORTH MAIN ST SOUTH BEND, IN      |
| 72985    | 0                          | 0                        | 0                  | 0                     | 22                     | 160                    | CITY OF SOUTH BEND             |                                       |
| 73116    | 675                        | 0                        | 0                  | 0                     | 0                      | 100                    | SOUTH BEND WATERWORKS          | P.O.BOX 1714, 224 N. MAIN ST.         |
| 73117    | 0                          | 195                      | 0                  | 0                     | 0                      | 200                    | CITY OF SOUTH BEND             |                                       |
| 73118    | 0                          | 0                        | 0                  | 0                     | 27                     | 205                    | CITY OF SOUTH BEND             |                                       |
| 73119    | 0                          | 126                      | 0                  | 0                     | 11                     | 129                    | CITY OF SOUTH BEND             |                                       |
| 73120    | 0                          | 0                        | 0                  | 20                    | 0                      | 205                    | CITY OF SOUTH BEND             |                                       |
| 73121    | 0                          | 0                        | 0                  | 0                     | 0                      | 185                    | CITY OF SOUTH BEND             |                                       |
| 73122    | 0                          | 0                        | 0                  | 20                    | 0                      | 205                    | CITY OF SOUTH BEND             |                                       |
| 73123    | 0                          | 112                      | 0                  | 0                     | 4                      | 122                    | CITY OF SOUTH BEND             |                                       |
| 73124    | 0                          | 0                        | 0                  | 0                     | 11                     | 83                     | CITY OF SOUTH BEND             |                                       |
| 73161    | 0                          | 0                        | 0                  | 10                    | 72                     | 121                    | MISHLAND REALTY CO.            | SOUTH BEND, IN                        |
| 73191    | 0                          | 0                        | 30                 | 6                     | 75                     | 103                    | JOHN LIPP                      | IRELAND RD                            |
| 113454   | 0                          | 0                        | 40                 | 5                     | 77                     | 133                    | JOHN PAKSI                     | 610 E. TASHER ST., SOUTH BEND, IN     |
| 268372   | 0                          | 0                        | 0                  | 10                    | 62                     | 75                     | TORO                           | 515 W IRELAND ST SOUTH BEND IN        |
| 279464   | 0                          | 0                        | 1                  | 10                    | 45                     | 130                    | TORO                           | 515 W. IRELAND ST. SOUTH BEND,IN      |
| 279465   | 0                          | 0                        | 1                  | 10                    | 45                     | 130                    | TORO                           | 515 W. IRELAND ST. SOUTH BEND,IN.     |
| 279466   | 0                          | 0                        | 1                  | 10                    | 49                     | 77                     | TORRO                          | 515 W. IRELAND ST. SOUTH BEND,IN.     |
| 279467   | 0                          | 0                        | 1                  | 10                    | 49                     | 75                     | TORO                           | 515 W. IRELAND ST. SOUTH BEND,IN.     |
| 293328   | 0                          | 0                        | 0                  | 3                     | 38                     | 58                     | SUPER AUTO SALVAGE             | MAIN ST., S BEND                      |
| 298490   | 0                          | 0                        | 0                  | 15                    | 38                     | 51                     | TN & ASSOC.                    |                                       |
| 298491   | 37                         | 0                        | 0                  | 5                     | 37                     | 70                     | TN & ASSOC.                    |                                       |
| 298492   | 0                          | 0                        | 0                  | 5                     | 37                     | 95                     | TN & ASSOC.                    |                                       |
| 298493   | 0                          | 0                        | 0                  | 5                     | 0                      | 75                     | TN & ASSOC.                    |                                       |
| 298494   | 0                          | 0                        | 0                  | 15                    | 40                     | 50                     | TN & ASSOC.                    |                                       |
| 298495   | 0                          | 0                        | 0                  | 5                     | 16                     | 69                     | TN & ASSOC.                    |                                       |
| 310734   | 0                          | 0                        | 40                 | 5                     | 22                     | 99                     | JEFF BOYERS                    | 20700 CHIPPEWA AV., SOUTH BEND, IN    |
| 329526   | 0                          | 0                        | 40                 | 5                     | 70                     | 120                    | STEVE MONROE                   | 4605 S. MAIN ST., SOUTH BEND, IN      |
| 354522   | 0                          | 0                        | 14                 | 5                     | 10                     | 58                     | RICH SZYMANSKI                 | 19898 SARAH ST., SOUTH BEND, IN       |
| 367463   | 691                        | 0                        | 0                  | 0                     | 52                     | 118                    | CITY OF SOUTH BEND WATER WORKS | 830 N MICHIGAN ST SOUTH BEND IN       |
| 367464   | 680                        | 0                        | 0                  | 0                     | 57                     | 134                    | CITY OF SOUTH BEND WATER WORKS | 830 N MICHIGAN ST SOUTH BEND IN       |
| 367465   | 669                        | 0                        | 0                  | 0                     | 0                      | 105                    | CITY OF SOUTH BEND WATER WORKS | 830 N MICHIGAN ST SOUTH BEND IN       |
| 367468   | 665                        | 0                        | 0                  | 0                     | 61                     | 145                    | CITY OF SOUTH BEND WATER WORKS | 830 N MICHIGAN ST SOUTH BEND IN       |
| 367469   | 650                        | 0                        | 0                  | 5                     | 82                     | 160                    | CITY OF SOUTH BEND WATER WORKS | 830 N MICHIGAN ST SOUTH BEND IN       |
| 367470   | 650                        | 0                        | 0                  | 0                     | 0                      | 167                    | CITY OF SOUTH BEND WATER WORKS | 830 N MICHIGAN ST SOUTH BEND IN       |
| 373372   | 0                          | 0                        | 10                 | 5                     | 33                     | 125                    | JAMES QUIGLEY                  | 3439 MIAMI ST., SOUTH BEND, IN        |
| 378003   | 0                          | 0                        | 0                  | 10                    | 0                      | 158                    | CITY OF SOUTH BEND             | 830 N MICHIGAN ST., SOUTH BEND, IN    |
| 381515   | 0                          | 0                        | 40                 | 5                     | 50                     | 94                     | SOUTH SIDE LITTLE LEAGUE       | 400 W EWING AV SOUTH BEND, IN         |
| 396505   | 0                          | 0                        | 0                  | 5                     | 23                     | 50                     | SOUTH BEND ECONOMIC DEVELOPMEN | 227 W JEFFERSON SOUTH BEND, IN        |
| 403131   | 0                          | 0                        | 40                 | 5                     | 75                     | 140                    | RANDY SCHLIPP                  | 3700 GERTRUDE ST SOUTH BEND, IN       |
| 404111   | 717                        | 0                        | 0                  | 0                     | 0                      | 113                    | SOUTH BEND WATER WORKS         | 830 N MICHIGAN ST SOUTH BEND, IN      |

**High Capacity Wells (≥70 gallons per minute)**  
 Within two miles of the Former Sibley/Accucast Foundry

| Well No. | Well elevation (ft<br>MSL) | Depth to<br>Bedrock (ft) | Pump Rate<br>(gpm) | Screen<br>Length (ft) | Depth to<br>Water (ft) | Length of<br>Well (ft) | Well Owner                     | Address of Owner                      |
|----------|----------------------------|--------------------------|--------------------|-----------------------|------------------------|------------------------|--------------------------------|---------------------------------------|
| 7629     | 672                        | 0                        | 2000               | 35                    | 56                     | 147                    | SOUTH BEND WATER CO.           |                                       |
| 67291    | 0                          | 0                        | 85                 | 10                    | 80                     | 152                    | FARINGTON APARTMENTS           | 1200 FARINGTON CIRCLE, SOUTH BEND, IN |
| 72811    | 0                          | 0                        | 470                | 33                    | 0                      | 68                     | STUDEBAKER CORP.               | SOUTH BEND, IN                        |
| 72816    | 0                          | 0                        | 250                | 14                    | 38                     | 81                     | STUDEBAKER CORP.               |                                       |
| 72818    | 546                        | 0                        | 2300               | 40                    | 19                     | 0                      | CITY OF SOUTH BEND             | OLIVER PARK STATION                   |
| 72861    | 651                        | 0                        | 1200               | 20                    | 10                     | 65                     | CITY OF SOUTH BEND             | SOUTH BEND IN                         |
| 72893    | 640                        | 0                        | 250                | 5                     | 31                     | 95                     | HARBOR METAL TREATING          | S BEND                                |
| 72907    | 0                          | 0                        | 1000               | 30                    | 30                     | 0                      | OLIVER CORPORATION             | SOUTH BEND, IN                        |
| 72912    | 0                          | 0                        | 85                 | 10                    | 36                     | 75                     | AT&T                           | 222 S. SCOTT, SOUTH BEND, IN          |
| 72918    | 608                        | 0                        | 250                | 25                    | 21                     | 127                    | HARBOR METAL TREATING          | S BEND                                |
| 72922    | 0                          | 94                       | 400                | 15                    | 32                     | 101                    | STUDEBAKER CORP.               |                                       |
| 72933    | 602                        | 0                        | 150                | 15                    | 32                     | 130                    | CARDINAL BOTTLING CO           | S BEND                                |
| 72942    | 0                          | 0                        | 120                | 13                    | 33                     | 64                     | INDIANA BELL TELEPHONE         |                                       |
| 72943    | 641                        | 0                        | 200                | 0                     | 36                     | 78                     | S.B.BAIT CO.                   | 1108 HIGHT                            |
| 72948    | 0                          | 0                        | 200                | 17                    | 36                     | 0                      | S. BEND BAIT CO.               | SOUTH BEND, IN                        |
| 72960    | 684                        | 0                        | 1450               | 30                    | 63                     | 134                    | CITY OF SOUTH BEND             | SOUTH BEND, IN                        |
| 72970    | 678                        | 0                        | 1404               | 20                    | 30                     | 92                     | CITY WATER WORKS               | SOUTH BEND                            |
| 72975    | 0                          | 0                        | 1051               | 25                    | 40                     | 100                    | SOUTH BEND WATER WORKS         | SOUTH STATION SOUTH BEND              |
| 72980    | 0                          | 0                        | 110                | 25                    | 46                     | 111                    | CITY OF SOUTH BEND             | SOUTH STATION                         |
| 72990    | 0                          | 0                        | 1040               | 40                    | 82                     | 138                    | CITY WATER DEPT.               | SOUTH BEND, IN                        |
| 72995    | 682                        | 0                        | 1404               | 20                    | 32                     | 93                     | CITY WATER DEPT                | SOUTH BEND, IN                        |
| 73167    | 655                        | 0                        | 857                | 40                    | 87                     | 175                    | CITY WATER DEPT.               | SOUTH BEND, IN                        |
| 73253    | 706                        | 0                        | 180                | 20                    | 64                     | 124                    | TRUSTEES, CENTER TOWNSHIP      |                                       |
| 276100   | 0                          | 0                        | 500                | 10                    | 84                     | 213                    | SOUTH BEND WATER               | SOUTH BEND, IN                        |
| 276107   | 0                          | 0                        | 500                | 20                    | 84                     | 170                    | SOUTH BEND WATER               | SOUTH BEND, IN                        |
| 293350   | 0                          | 0                        | 350                | 0                     | 14                     | 63                     | FATTORE CO.                    | SOUTH BEND, IN                        |
| 318865   | 0                          | 0                        | 80                 | 7                     | 50                     | 117                    |                                | 21321 JACKSON RD., SOUTH BEND, IN     |
| 333496   | 0                          | 0                        | 1700               | 30                    | 43                     | 113                    | CITY OF SOUTH BEND             | 830 N MICHIGAN ST SOUTH BEND IN       |
| 378770   | 0                          | 0                        | 100                | 15                    | 50                     | 120                    | AM GENERAL                     | 801 W CHIPPEWA SOUTH BEND IN          |
| 399921   | 0                          | 0                        | 80                 | 10                    | 62                     | 155                    | ALWAYS DEVELOPMENT             | RED FAWN COURT SOUTH BEND, IN         |
| 408949   | 673                        | 0                        | 2045               | 30                    | 37                     | 112                    | CITY OF SOUTH BEND WATER WORKS | 830 N MICHIGAN ST SOUTH BEND, IN      |
| 414832   | 0                          | 0                        | 70                 | 5                     | 41                     | 79                     | WILMA GILLEAN                  | 19750 YODER DR SOUTH BEND, IN         |

## Record of Water Well Indiana Department of Natural Resources

|                         |  |                       |
|-------------------------|--|-----------------------|
| <b>Reference Number</b> | <b>Driving Direction to Well</b>                                 | <b>Date Completed</b> |
| 73118                   | FROM USGS BULLETIN #3 SJ 7-15. EWING AVE. W. OF PERFUME FACTORY. | 8/24/1926             |

|                         |                         |                       |                  |
|-------------------------|-------------------------|-----------------------|------------------|
| <b>Owner-Contractor</b> | <b>Name</b>             | <b>Address</b>        | <b>Telephone</b> |
| Owner                   | CITY OF SOUTH BEND      | Not available         | Not available    |
| Driller                 | AUSTIN DRILLING COMPANY | Not available         | Not available    |
| Operator                | Not available           | License Not available |                  |

**Construction Details**

|        |                                 |  |                                     |
|--------|---------------------------------|--|-------------------------------------|
| Well   | <b>Use:</b> Not available       | <b>Drilling Method:</b> Not available    | <b>Pump Type:</b> Not available     |
|        | <b>Depth:</b> 205.0             | <b>Pump Setting Depth:</b> Not available | <b>Water Quality:</b> Not available |
| Casing | <b>Length:</b> Not available    | <b>Material:</b> Not available           | <b>Diameter:</b> Not available      |
| Screen | <b>Length:</b> Not available    | <b>Material:</b> Not available           | <b>Diameter:</b> Not available      |
|        | <b>Slot Size:</b> Not available |  |                                     |

|                           |                                    |                                     |                                       |
|---------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Well Capacity Test</b> | <b>Type of Test:</b> Not available | <b>Test Rate:</b> Not available     | <b>Bail Test Rate:</b> Not available  |
|                           | <b>Drawdown:</b> Not available     | <b>Static Water Level:</b> 27.0 ft. | <b>Bailer Drawdown:</b> Not available |

|                             |   |   |
|-----------------------------|---|---|
| <b>Grouting Information</b> | <b>Material:</b> Not available            | <b>Depth:</b> From (not available) To (not available) |
|                             | <b>Installation Method:</b> Not available | <b>Number of Bags Used:</b> Not available             |

|                         |   |   |
|-------------------------|---|---|
| <b>Well Abandonment</b> | <b>Sealing Material:</b> Not available    | <b>Depth:</b> From (not available) To (not available) |
|                         | <b>Installation Method:</b> Not available | <b>Number of Bags Used:</b> Not available             |

|                       |   |   |
|-----------------------|---|---|
| <b>Administrative</b> | <b>County:</b> ST. JOSEPH                                   | <b>Township:</b> 37N  |
|                       | <b>Range:</b> 2E  | <b>Section:</b> NW of the NW of Section 24                  |
|                       | <b>Topo Map:</b> SOUTH BEND WEST                            | <b>Grant:</b> Not available                                 |
|                       | <b>Field Located By:</b> Not available                      | <b>Field Located On:</b> Not available                      |
|                       | <b>Courthouse Location By:</b> Not available                | <b>Courthouse Location On:</b> Not available                |
|                       | <b>Location Accepted w/o Verification By:</b> Not available | <b>Location Accepted w/o Verification On:</b> Not available |
|                       | <b>Subdivision Name:</b> Not available                      | <b>Lot Number:</b> Not available                            |
|                       | <b>Ft W of EL:</b> Not available                            | <b>Ft N of SL:</b> Not available                            |
|                       | <b>Ft E of WL:</b> Not available                            | <b>Ft S of NL:</b> Not available                            |
|                       | <b>Ground Elevation:</b> 759.0                              | <b>Depth of Bedrock:</b> 130.0                              |
|                       | <b>Bedrock Elevation:</b> 629.0                             | <b>Aquifer Elevation:</b> Not available                     |
|                       | <b>UTM Easting:</b> Not available                           | <b>UTM Northing:</b> Not available                          |

**Well Log**

| Top  | Bottom | Formation |
|------|--------|-----------|
| 0.0  | 20.0   | TOP SOIL  |
| 20.0 | 25.0   | CRS GRAV  |
|      |        |           |

|       |       |                                |
|-------|-------|--------------------------------|
| 25.0  | 45.0  | FN SAND                        |
| 45.0  | 55.0  | CRS SAND                       |
| 55.0  | 60.0  | FN TO CRS SAND                 |
| 60.0  | 65.0  | CRS SAND                       |
| 65.0  | 70.0  | CRS GRAV & STONES              |
| 70.0  | 80.0  | CRS GRAV                       |
| 80.0  | 95.0  | BLUE CLAY                      |
| 95.0  | 130.0 | FN SAND                        |
| 130.0 | 195.0 | BLUE CLAY                      |
| 195.0 | 205.0 | LOWER MISSISSIPPIAN BLUE SHALE |

**Comments**

None

## Record of Water Well

## Indiana Department of Natural Resources

|   |   |                                     |                                       |                           |
|---|---|-------------------------------------|---------------------------------------|---------------------------|
| <b>Reference Number</b><br><b>73119</b> | <b>Driving directions to well</b><br>S. OF PERFUME FACTORY, FROM USGS BULLETIN #3 SJ 7-24 |                                     | <b>Date completed</b><br>Mar 18, 1927 |                           |
| <b>Owner-Contractor</b>                 | <b>Name</b>   | <b>Address</b>                      | <b>Telephone</b>                      |                           |
| Owner                                   | CITY OF SOUTH BEND  |                                     |                                       |                           |
| Driller                                 | AUSTIN DRILLING COMPANY   |                                     |                                       |                           |
| <b>Construction Details</b>             |   |                                     |                                       |                           |
| Well                                    | <b>Use:</b>   | <b>Drilling method:</b>             | <b>Pump type:</b>                     |                           |
|   | <b>Depth:</b> 129.0   | <b>Pump setting depth:</b>          | <b>Water quality:</b>                 |                           |
| Casing                                  | <b>Length:</b>  | <b>Material:</b>                    | <b>Diameter:</b>                      |                           |
| Screen                                  | <b>Length:</b>  | <b>Material:</b>                    | <b>Diameter: Slot size:</b>           |                           |
| <b>Well Capacity Test</b>               | <b>Type of test:</b>  | <b>Test rate:</b> gpm for hrs.      | <b>Bail Test rate:</b> gpm for hrs.   |                           |
|   | <b>Drawdown:</b> ft.  | <b>Static water level:</b> 11.0 ft. | <b>Bailer Drawdown:</b> ft.           |                           |
| <b>Grouting Information</b>             | <b>Material:</b>  | <b>Depth:</b> from to               |                                       |                           |
|   | <b>Installation Method:</b>   | <b>Number of bags used:</b>         |                                       |                           |
| <b>Well Abandonment</b>                 | <b>Sealing material:</b>  | <b>Depth:</b> from to               |                                       |                           |
|   | <b>Installation Method:</b>   | <b>Number of bags used:</b>         |                                       |                           |
| <b>Administrative</b>                   | <b>County:</b> ST. JOSEPH   |                                     | <b>Township:</b> 37N <b>Range:</b> 2E |                           |
|   | <b>Section:</b> NW of the NW of the NW of Section 24                                      |                                     | <b>Topo map:</b> SOUTH BEND WEST      |                           |
|   | <b>Grant Number:</b>  |                                     |                                       |                           |
|   | <b>Field located by:</b>  |                                     | <b>on:</b>                            |                           |
|   | <b>Courthouse location by:</b>  |                                     | <b>on:</b>                            |                           |
|   | <b>Location accepted w/o verification by:</b>   |                                     | <b>on:</b>                            |                           |
|   | <b>Subdivision name:</b>  |                                     | <b>Lot number:</b>                    |                           |
|   | <b>Ft W of EL:</b>  | <b>Ft N of SL:</b>                  | <b>Ft E of WL:</b>                    | <b>Ft S of NL:</b>        |
|   | <b>Ground elevation:</b> 746.5  | <b>Depth to bedrock:</b> 126.0      | <b>Bedrock elevation:</b> 621.0       | <b>Aquifer elevation:</b> |
|   | <b>UTM Easting:</b> 562225.0  |                                     | <b>UTM Northing:</b> 4610930.0        |                           |
| <b>Well Log</b>                         | <b>Top</b>  | <b>Bottom</b>                       | <b>Formation</b>                      |                           |
|   | 0.0   | 2.0                                 | TOP SOIL, BLACK DIRT                  |                           |
|   | 2.0   | 4.0                                 | DIRTY SAND, GRAY GRAV                 |                           |
|   | 4.0   | 12.0                                | MD TO CRS S&G                         |                           |
|   | 12.0  | 18.0                                | MD TO CRS SAND                        |                           |
|   | 18.0  | 36.0                                | FN SAND                               |                           |
|   | 36.0  | 42.0                                | CRS BR SAND                           |                           |
|   | 42.0  | 53.0                                | BR GRAV                               |                           |
|   | 53.0  | 63.0                                | CLEAN GRAV                            |                           |
|   | 63.0  | 70.0                                | CRS S&G                               |                           |
|   | 70.0  | 99.0                                | BLUE CLAY & SANDY GRAV                |                           |

|       |       |                           |
|-------|-------|---------------------------|
| 99.0  | 104.0 | SANDY BR GRAV             |
| 104.0 | 110.0 | SANDY BR CLAY             |
| 110.0 | 126.0 | BLUE CLAY W/ S&G          |
| 126.0 | 129.0 | LOWER MISSISSIPPIAN SHALE |

**Comments** PLOTTED ON BEDROCK MAP.

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## Record of Water Well

## Indiana Department of Natural Resources

|                             |  |                                |   |
|-----------------------------|--|--------------------------------|---|
| <b>Reference Number</b>     | <b>Driving directions to well</b>  |                                | <b>Date completed</b>                                     |
| <b>73120</b>                | FROM USGS BULLETIN #3 SJ 7-17. S. OF EWING AVE, NEAR SJ<br>7-15 E. OF PERFUME FACTORY. |                                | Oct 06, 1926  |
| <b>Owner-Contractor</b>     | <b>Name</b>  | <b>Address</b>                 | <b>Telephone</b>  |
| Owner                       | CITY OF SOUTH BEND   |                                |   |
| Driller                     | AUSTIN DRILLING COMPANY  |                                |   |
| <b>Construction Details</b> |  |                                |   |
| Well                        | <b>Use:</b>  | <b>Drilling method:</b>        | <b>Pump type:</b>   |
|                             | <b>Depth:</b> 205.0  | <b>Pump setting depth:</b>     | <b>Water quality:</b>                                     |
| Casing                      | <b>Length:</b>   | <b>Material:</b>               | <b>Diameter:</b>  |
| Screen                      | <b>Length:</b> 20.0  | <b>Material:</b>               | <b>Diameter: Slot size:</b>                               |
| <b>Well Capacity Test</b>   | <b>Type of test:</b>   | <b>Test rate:</b> gpm for hrs. | <b>BailTest rate:</b> gpm for hrs.                        |
|                             | <b>Drawdown:</b> ft.   | <b>Static water level:</b> ft. | <b>Bailer Drawdown</b> ft.                                |
| <b>Grouting Information</b> | <b>Material:</b>   | <b>Depth:</b> from to          |   |
|                             | <b>Installation Method:</b>  | <b>Number of bags used:</b>    |   |
| <b>Well Abandonment</b>     | <b>Sealing material:</b>   | <b>Depth:</b> from to          |   |
|                             | <b>Installation Method:</b>  | <b>Number of bags used:</b>    |   |
| <b>Administrative</b>       | <b>County:</b> ST. JOSEPH  |                                | <b>Township:</b> 37N <b>Range:</b> 2E                     |
|                             | <b>Section:</b> SW of the NW of the NW of Section 24                                   |                                | <b>Topo map:</b> SOUTH<br>BEND WEST                       |
|                             | <b>Grant Number:</b>   |                                |   |
|                             | <b>Field located by:</b>   |                                | <b>on:</b>  |
|                             | <b>Courthouse location by:</b>   |                                | <b>on:</b>  |
|                             | <b>Location accepted w/o verification by:</b>  |                                | <b>on:</b>  |
|                             | <b>Subdivision name:</b>   |                                |   |
|                             | <b>Ft W of EL:</b>   | <b>Ft N of SL:</b>             | <b>Lot number:</b>  |
|                             | <b>Ground elevation:</b> 759.0   | <b>Depth to bedrock:</b> 126.0 | <b>Ft E of WL:</b> <b>Ft S of NL:</b>                     |
|                             | <b>UTM Easting:</b>  |                                | <b>Bedrock elevation:</b> 633.0 <b>Aquifer elevation:</b> |
|                             |  |                                | <b>UTM Northing:</b>                                      |
| <b>Well Log</b>             | <b>Top</b>   | <b>Bottom</b>                  | <b>Formation</b>  |
|                             | 0.0  | 2.0                            | TOP SOIL, BLACK DIRT                                      |
|                             | 2.0  | 4.0                            | DIRTY SAND & GRAY GRAV                                    |
|                             | 4.0  | 12.0                           | MD TO CRS GRAY GRAV                                       |
|                             | 12.0   | 18.0                           | MD TO CRS SAND  |
|                             | 18.0   | 36.0                           | FN SAND   |
|                             | 36.0   | 42.0                           | CRS BR SND  |
|                             | 42.0   | 53.0                           | BR GRAV   |
|                             | 53.0   | 63.0                           | CLEAN GRAV  |
|                             | 63.0   | 70.0                           | CRS S&G   |
|                             | 70.0   | 99.0                           | BLUE CLAY & SANDY GRAV                                    |



|       |       |                                |
|-------|-------|--------------------------------|
| 99.0  | 104.0 | SANDY BR GRAV                  |
| 104.0 | 110.0 | SANDY BR CLAY                  |
| 110.0 | 126.0 | BLUE CLAY W/ S&G               |
| 126.0 | 129.0 | LOWER MISSISSIPPIAN SER. SHALE |

**Comments** PLOTTED IN BEDROCK MAP.

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## Record of Water Well

## Indiana Department of Natural Resources

|                             |  |                                |   |
|-----------------------------|--|--------------------------------|---|
| <b>Reference Number</b>     | <b>Driving directions to well</b>  |                                | <b>Date completed</b>                                     |
| <b>73122</b>                | S. OF EWING AVENUE, NEAR SJ 7-15, W. OF PERFUME FACTORY, FROM USGS BULLETIN #3, SJ 7-17. |                                | Oct 26, 1926  |
| <b>Owner-Contractor</b>     | <b>Name</b>  | <b>Address</b>                 | <b>Telephone</b>  |
| Owner                       | CITY OF SOUTH BEND   |                                |   |
| Driller                     | AUSTIN DRILLING COMPANY  |                                |   |
| <b>Construction Details</b> |  |                                |   |
| Well                        | <b>Use:</b>  | <b>Drilling method:</b>        | <b>Pump type:</b>   |
|                             | <b>Depth:</b> 205.0  | <b>Pump setting depth:</b>     | <b>Water quality:</b>                                     |
| Casing                      | <b>Length:</b>   | <b>Material:</b>               | <b>Diameter:</b>  |
| Screen                      | <b>Length:</b> 20.0  | <b>Material:</b>               | <b>Diameter: Slot size:</b>                               |
| <b>Well Capacity Test</b>   | <b>Type of test:</b>   | <b>Test rate:</b> gpm for hrs. | <b>BailTest rate:</b> gpm for hrs.                        |
|                             | <b>Drawdown:</b> ft.   | <b>Static water level:</b> ft. | <b>Bailer Drawdown</b> ft.                                |
| <b>Grouting Information</b> | <b>Material:</b>   | <b>Depth:</b> from to          |   |
|                             | <b>Installation Method:</b>  | <b>Number of bags used:</b>    |   |
| <b>Well Abandonment</b>     | <b>Sealing material:</b>   | <b>Depth:</b> from to          |   |
|                             | <b>Installation Method:</b>  | <b>Number of bags used:</b>    |   |
| <b>Administrative</b>       | <b>County:</b> ST. JOSEPH  | <b>Township:</b> 37N           | <b>Range:</b> 2E  |
|                             | <b>Section:</b> NW of the NW of Section 24   |                                | <b>Topo map:</b> SOUTH BEND WEST                          |
|                             | <b>Grant Number:</b>   |                                |   |
|                             | <b>Field located by:</b>   | <b>on:</b>                     |   |
|                             | <b>Courthouse location by:</b>   | <b>on:</b>                     |   |
|                             | <b>Location accepted w/o verification by:</b>  | <b>on:</b>                     |   |
|                             | <b>Subdivision name:</b>   | <b>Lot number:</b>             |   |
|                             | <b>Ft W of EL:</b>   | <b>Ft N of SL:</b>             | <b>Ft E of WL:</b> <b>Ft S of NL:</b>                     |
|                             | <b>Ground elevation:</b> 759.0   | <b>Depth to bedrock:</b> 130.0 | <b>Bedrock elevation:</b> 629.0 <b>Aquifer elevation:</b> |
|                             | <b>UTM Easting:</b>  |                                | <b>UTM Northing:</b>                                      |
| <b>Well Log</b>             | Top  | Bottom                         | Formation   |
|                             | 0.0  | 20.0                           | TOP SOIL  |
|                             | 20.0   | 25.0                           | CRS GRAV  |
|                             | 25.0   | 45.0                           | FN SAND   |
|                             | 45.0   | 55.0                           | CRS SAND  |
|                             | 55.0   | 60.0                           | CRS SAND W/ SOME FN SAND                                  |
|                             | 60.0   | 65.0                           | CRS SAND  |
|                             | 65.0   | 70.0                           | CRS GRAV & STONES   |
|                             | 70.0   | 85.0                           | CRS GRAV  |
|                             | 85.0   | 95.0                           | BLUE CLAY   |
|                             | 95.0   | 130.0                          | FN SAND   |

|       |       |                                |
|-------|-------|--------------------------------|
| 130.0 | 195.0 | BLUE CLAY                      |
| 195.0 | 205.0 | LOWER MISSISSIPPIAN BLUE SHALE |

**Comments** PLOTTED ON BEDROCK MAP.

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## Record of Water Well

## Indiana Department of Natural Resources

| Reference Number | Driving directions to well                                  | Date completed |
|------------------|---|----------------|
| 73123            | ECKMAN ST. & LAFAYETTE ST., FROM USGS BULLETIN #3 SJ<br>8-9 | Jan 01, 1911   |

| Owner-Contractor | Name               | Address | Telephone |
|------------------|--------------------|---------|-----------|
| Owner            | CITY OF SOUTH BEND |         |           |

## Construction Details

|        |                     |                            |                             |
|--------|---------------------|----------------------------|-----------------------------|
| Well   | <b>Use:</b>         | <b>Drilling method:</b>    | <b>Pump type:</b>           |
|        | <b>Depth:</b> 122.0 | <b>Pump setting depth:</b> | <b>Water quality:</b>       |
| Casing | <b>Length:</b>      | <b>Material:</b>           | <b>Diameter:</b>            |
| Screen | <b>Length:</b>      | <b>Material:</b>           | <b>Diameter: Slot size:</b> |

|                           |                      |                                    |                                    |
|---------------------------|----------------------|------------------------------------|------------------------------------|
| <b>Well Capacity Test</b> | <b>Type of test:</b> | <b>Test rate:</b> gpm for hrs.     | <b>BailTest rate:</b> gpm for hrs. |
|                           | <b>Drawdown:</b> ft. | <b>Static water level:</b> 4.0 ft. | <b>Bailer Drawdown</b> ft.         |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| <b>Grouting Information</b> | <b>Material:</b>            | <b>Depth:</b> from to       |
|                             | <b>Installation Method:</b> | <b>Number of bags used:</b> |

|                         |                             |                             |
|-------------------------|-----------------------------|-----------------------------|
| <b>Well Abandonment</b> | <b>Sealing material:</b>    | <b>Depth:</b> from to       |
|                         | <b>Installation Method:</b> | <b>Number of bags used:</b> |

|                       |  |                                  |   |
|-----------------------|--|----------------------------------|---|
| <b>Administrative</b> | <b>County:</b> ST. JOSEPH                            | <b>Township:</b> 37N             | <b>Range:</b> 2E  |
|                       | <b>Section:</b> NW of the SW of the NW of Section 24 | <b>Topo map:</b> SOUTH BEND WEST |   |
|                       | <b>Grant Number:</b>                                 |                                  |   |
|                       | <b>Field located by:</b>                             | <b>on:</b>                       |   |
|                       | <b>Courthouse location by:</b>                       | <b>on:</b>                       |   |
|                       | <b>Location accepted w/o verification by:</b>        | <b>on:</b>                       |   |
|                       | <b>Subdivision name:</b>                             | <b>Lot number:</b>               |   |
|                       | <b>Ft W of EL:</b>                                   | <b>Ft N of SL:</b>               | <b>Ft E of WL:</b> <b>Ft S of NL:</b>                     |
|                       | <b>Ground elevation:</b> 755.0                       | <b>Depth to bedrock:</b> 112.0   | <b>Bedrock elevation:</b> 643.0 <b>Aquifer elevation:</b> |
|                       | <b>UTM Easting:</b> 562220.0                         |                                  | <b>UTM Northing:</b> 4610550.0                            |

| Well Log | Top   | Bottom | Formation      |
|----------|-------|--------|----------------|
|          | 0.0   | 20.0   | TOP SOIL       |
|          | 20.0  | 60.0   | CLAY           |
|          | 60.0  | 70.0   | CRS GRAV       |
|          | 70.0  | 90.0   | QUICKSAND      |
|          | 90.0  | 110.0  | CLAY           |
|          | 110.0 | 112.0  | GRAV           |
|          | 112.0 | 122.0  | BEDROCK, SHALE |

|                 |                         |
|-----------------|-------------------------|
| <b>Comments</b> | PLOTTED ON BEDROCK MAP. |
|-----------------|-------------------------|

## Record of Water Well

## Indiana Department of Natural Resources

|                         |   |                       |
|-------------------------|---|-----------------------|
| <b>Reference Number</b> | <b>Driving directions to well</b>                               | <b>Date completed</b> |
| <b>73124</b>            | ECHMAN ST. W. OF PENNS RAILROAD FROM USGS BULLETIN #3, SJ 7-28. | Mar 24, 1927          |

|                         |                         |                |                  |
|-------------------------|-------------------------|----------------|------------------|
| <b>Owner-Contractor</b> | <b>Name</b>             | <b>Address</b> | <b>Telephone</b> |
| Owner                   | CITY OF SOUTH BEND      |                |                  |
| Driller                 | AUSTIN DRILLING COMPANY |                |                  |

**Construction Details**

|        |                    |                            |                             |
|--------|--------------------|----------------------------|-----------------------------|
| Well   | <b>Use:</b>        | <b>Drilling method:</b>    | <b>Pump type:</b>           |
|        | <b>Depth:</b> 83.0 | <b>Pump setting depth:</b> | <b>Water quality:</b>       |
| Casing | <b>Length:</b>     | <b>Material:</b>           | <b>Diameter:</b>            |
| Screen | <b>Length:</b>     | <b>Material:</b>           | <b>Diameter: Slot size:</b> |

|                           |                      |                                     |                                    |
|---------------------------|----------------------|-------------------------------------|------------------------------------|
| <b>Well Capacity Test</b> | <b>Type of test:</b> | <b>Test rate:</b> gpm for hrs.      | <b>BailTest rate:</b> gpm for hrs. |
|                           | <b>Drawdown:</b> ft. | <b>Static water level:</b> 11.0 ft. | <b>Bailer Drawdown</b> ft.         |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| <b>Grouting Information</b> | <b>Material:</b>            | <b>Depth:</b> from to       |
|                             | <b>Installation Method:</b> | <b>Number of bags used:</b> |

|                         |                             |                             |
|-------------------------|-----------------------------|-----------------------------|
| <b>Well Abandonment</b> | <b>Sealing material:</b>    | <b>Depth:</b> from to       |
|                         | <b>Installation Method:</b> | <b>Number of bags used:</b> |

|                       |  |                                  |   |
|-----------------------|--|----------------------------------|---|
| <b>Administrative</b> | <b>County:</b> ST. JOSEPH                            | <b>Township:</b> 37N             | <b>Range:</b> 2E  |
|                       | <b>Section:</b> NW of the SW of the NW of Section 24 | <b>Topo map:</b> SOUTH BEND WEST |   |
|                       | <b>Grant Number:</b>                                 |                                  |   |
|                       | <b>Field located by:</b>                             | <b>on:</b>                       |   |
|                       | <b>Courthouse location by:</b>                       | <b>on:</b>                       |   |
|                       | <b>Location accepted w/o verification by:</b>        | <b>on:</b>                       |   |
|                       | <b>Subdivision name:</b>                             | <b>Lot number:</b>               |   |
|                       | <b>Ft W of EL:</b>                                   | <b>Ft N of SL:</b>               | <b>Ft E of WL:</b> <b>Ft S of NL:</b>                     |
|                       | <b>Ground elevation:</b> 749.0                       | <b>Depth to bedrock:</b> 72.0    | <b>Bedrock elevation:</b> 677.0 <b>Aquifer elevation:</b> |
|                       | <b>UTM Easting:</b>                                  |                                  | <b>UTM Northing:</b>                                      |

|                 |      |        |                          |
|-----------------|------|--------|--------------------------|
| <b>Well Log</b> | Top  | Bottom | Formation                |
|                 | 0.0  | 20.0   | TOP SOIL                 |
|                 | 20.0 | 25.0   | CRS GRAV                 |
|                 | 25.0 | 45.0   | FN SAND                  |
|                 | 45.0 | 55.0   | CRS SAND                 |
|                 | 55.0 | 60.0   | CRS SAND W/ SOME FN SAND |
|                 | 60.0 | 65.0   | CRS SAND                 |
|                 | 65.0 | 70.0   | CRS GRAV & STONES        |
|                 | 70.0 | 85.0   | CRS GRAV                 |
|                 | 85.0 | 95.0   | BLUE CLAY                |
|                 | 95.0 | 130.0  | FN SAND                  |


|       |       |                                |
|-------|-------|--------------------------------|
| 130.0 | 195.0 | BLUE CLAY                      |
| 195.0 | 205.0 | LOWER MISSISSIPPIAN BLUE SHALE |

**Comments** PLOTTED ON BEDROCK MAP.

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# **APPENDIX C**

Soil Probe Logs and Well Completion Diagrams


|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           | Soil Probe Designation: <b>TMW-1</b>   |                           |
|---|---|---|-----------|--|---------------------------|
|   |   |   |           | File No.: <b>2339-356-03-00</b>  |                           |
|   |   |   |           | Client: <b>IN Brownfields Prog.</b>  |                           |
| Time Started: 11:35   |   | Driller: Rock LLC   |           | Date of Probe: 6/23/2014   |                           |
| Time Completed: 12:05   |   | Location: Sibley/Accucast   |           | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.88 feet |                           |
| Depth to water (ft): 12.0   |   | South Bend, IN  |           |  |                           |
| Easting: 3,179,524 Northing: 2,331,595  |   | SAMPLE DATA   |           |  |                           |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT   |                           |
| 1.0   | Pulverized CONCRETE   | 24  | 0.0       | Dry  |                           |
|   | F dark reddish-brown SAND, well-sorted                            |   |           |  |                           |
| 2.0   | F tan SAND, well-sorted   | 24  | 0.0       | Moist  | Granular bentonite        |
| 3.0   | Black to very dark brown F-M SAND, well-sorted                    |   |           |  |                           |
| 4.0   |   |   |           |  |                           |
| 5.0   |   | 24  | 0.0       | Moist  | 1-inch OD PVC casing      |
| 6.0   | F dark reddish-brown SAND, well-sorted                            |   |           |  |                           |
| 7.0   | Black to very dark brown F-M SAND, well-sorted                    | 23  | 0.0       | Moist  | Water table               |
| 8.0   | Black CLAY  |   |           |  |                           |
| 9.0   |   | 37  | 0.0       | Wet  | Global #5 sandpack        |
| 10.0  | Greenish-gray CLAY  |   |           |  |                           |
| 11.0  | Mottled (red, tan, brown) M-VC SAND, some GRAVEL                  |   |           |  |                           |
| 12.0  |   | 45  | 0.0       | Wet  | 1-inch OD #10 slotted PVC |
| 13.0  | Light tannish-brown M-C SAND, trace GRAVEL                        |   |           |  |                           |
| 14.0  |   | 45 (approx.)  | 0.0       | Wet  |                           |
| 15.0  | Tannish C-VC SAND, trace GRAVEL                                   |   |           |  |                           |
| 16.0  |   | 45 (approx.)  | 0.0       | Wet  |                           |
| 17.0  | Light tannish-brown M-C SAND, trace GRAVEL                        |   |           |  |                           |
| 18.0  |   | 45 (approx.)  | 0.0       | Wet  |                           |
| 19.0  | Liner stuck in this interval; material poured out was homogenous. |   |           |  |                           |
| 20.0  |   | 45 (approx.)  | 0.0       | Wet  |                           |
| 21.0  |   |   |           |  |                           |
| 22.0  |   | 45 (approx.)  | 0.0       | Wet  |                           |
| 23.0  |   |   |           |  |                           |
| 24.0  | End of Probe at 24'   |   |           |  |                           |

NOTES: Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968




|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br><a href="http://www.weaverboos.com">http://www.weaverboos.com</a> |           | Soil Probe Designation: <b>TMW-2</b>   |                           |
|---|---|---|-----------|--|---------------------------|
|   |   |   |           | File No.: <b>2339-356-03-00</b>  |                           |
|   |   |   |           | Client: <b>IN Brownfields Prog.</b>  |                           |
| Time Started: 13:05   |   | Driller: Rock LLC   |           | Date of Probe: <b>6/23/2014</b>  |                           |
| Time Completed: 13:47   |   | Location: Sibley/Accucast   |           | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.73 feet |                           |
| Depth to water (ft): 12.5   |   | South Bend, IN  |           |  |                           |
| Easting: 3,179,712 Northing: 2,331,609  |   | SAMPLE DATA   |           |  |                           |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT   |                           |
| 1.0   | Pulverized CONCRETE   |   | 0.0       | Dry  |                           |
| 2.0   | Mottled rust-red to dark brown to black F-VC SAND, containing some chunks resembling clinkers | 23  |           |  |                           |
| 3.0   |   |   | 0.0       | Moist  |                           |
| 4.0   | Greenish-tan F-M SAND, trace GRAVEL   |   |           |  | Granular bentonite        |
| 5.0   |   |   | 0.0       | Moist  |                           |
| 6.0   |   | 20  |           |  |                           |
| 7.0   |   |   | 0.0       | Moist  |                           |
| 8.0   | Reddish CLAY with some SAND and some angular GRAVEL chunks                                    |   |           |  | 1-inch OD PVC casing      |
| 9.0   |   |   | 0.0       | Moist  |                           |
| 10.0  | Mottled rust-red to dark brown to black M-C SAND with angular GRAVEL                          | 24  |           |  |                           |
| 11.0  | Light tan M-C SAND, trace GRAVEL  |   | 0.0       | Moist  |                           |
| 12.0  |   |   |           |  | Water table               |
| 13.0  |   |   | 0.0       | Moist  |                           |
| 14.0  | Light tan F SAND, well-sorted   |   |           | Wet  |                           |
| 15.0  | Light tan M-C SAND, trace GRAVEL  | 44  |           |  | Global #5 sandpack        |
| 16.0  | Light tan C-VC SAND   |   | 0.0       | Wet  |                           |
| 17.0  | Light tan M-C SAND, trace GRAVEL  |   | 0.0       | Wet  |                           |
| 18.0  |   | 46  |           |  |                           |
| 19.0  |   |   | 0.0       | Wet  | 1-inch OD #10 slotted PVC |
| 20.0  | Light tan C-VC SAND   |   |           |  |                           |
| 21.0  | Light tan M-C SAND, trace GRAVEL  |   | 0.0       | Wet  |                           |
| 22.0  | Liner stuck in this interval; material poured out was homogenous.                             | 45 (approx.)  |           |  |                           |
| 23.0  |   |   | 0.0       | Wet  |                           |
| 24.0  | End of Probe at 24'   |   |           |  |                           |


NOTES: Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           | Soil Probe Designation: <b>TMW-3</b>   |                           |
|---|---|---|-----------|--|---------------------------|
|   |   |   |           | File No.: <b>2339-356-03-00</b>  |                           |
|   |   |   |           | Client: <b>IN Brownfields Prog.</b>  |                           |
| Time Started: 8:40  |   | Driller: Rock LLC   |           | Date of Probe: 6/19/2014   |                           |
| Time Completed: 9:26  |   | Location: Sibley/Accucast   |           | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.08 feet |                           |
| Depth to water (ft): 14.0   |   | South Bend, IN  |           |  |                           |
| Easting: 3,179,841 Northing: 2,331,632  |   | SAMPLE DATA   |           |  |                           |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT   |                           |
| 1.0   | Grayish SAND with angular white rock GRAVEL   |   | 1.4       | Moist  | Granular bentonite        |
| 2.0   | Dark reddish-brown F-M SAND with some SILT. The top 6 inches of this layer is very dark and hard. | 19  | 3.0       | Moist  |                           |
| 3.0   |   |   |           | Moist  |                           |
| 4.0   |   |   |           | Moist  |                           |
| 5.0   |   |   |           | Moist  | 1-inch OD PVC casing      |
| 6.0   | Grayish-brown CLAY and SAND   | 23  | 1.7       | Moist  |                           |
| 7.0   |   |   |           | Moist  |                           |
| 8.0   | Tannish F SAND, well-sorted   |   | 1.8       | Moist  | Water table               |
| 9.0   |   |   |           | Moist  |                           |
| 10.0  |   | 28  |           | Moist  | Global #5 sandpack        |
| 11.0  |   |   |           | Moist  |                           |
| 12.0  | Tannish M-C SAND, trace GRAVEL  |   | 2.1       | Moist  | 1-inch OD #10 slotted PVC |
| 13.0  |   |   |           | Wet  |                           |
| 14.0  | ▼   | 32  |           | Wet  |                           |
| 15.0  |   |   | 1.7       | Wet  |                           |
| 16.0  |   |   |           | Wet  |                           |
| 17.0  |   | 46  | 1.2       | Wet  |                           |
| 18.0  |   |   |           |  |                           |
| 19.0  | Tannish C-VC SAND, trace GRAVEL   |   |           | Wet  |                           |
| 20.0  |   | 20 (approx.)  | 1.2       | Wet  |                           |
| 21.0  |   |   |           |  | Wet                       |
| 22.0  | Liner stuck in this interval; material poured out was homogenous.                                 |   |           | Wet  |                           |
| 23.0  |   |   |           | Wet  |                           |
| 24.0  | End of Probe at 24'   |   |           |  |                           |


NOTES: Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |                                 | Soil Probe Designation: <b>TMW-4</b>   |  |
|---|---|---|-----------|---------------------------------|--|--|
|   |   |   |           |                                 | File No.: <b>2339-356-03-00</b>  |  |
|   |   |   |           |                                 | Client: <b>IN Brownfields Prog.</b>  |  |
| Time Started: 11:40   |   | Driller: Rock LLC   |           | Date of Probe: <b>6/20/2014</b> |  |  |
| Time Completed: 12:20   |   | Location: Sibley/Accucast   |           |                                 | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.30 feet |  |
| Depth to water (ft): 13.0   |   | South Bend, IN  |           |                                 |  |  |
| Easting: 3,179,694 Northing: 2,331,334  |   | SAMPLE DATA   |           |                                 |  |  |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT                |  |  |
| 1.0   | Pulverized CONCRETE   |   | 0.6       | Dry                             |  |  |
|   | Dark SAND with SILT   |   |           |                                 |  |  |
| 2.0   | Reddish-brown F-M SAND, trace GRAVEL                              | 23  | 0.0       | Moist                           | Granular bentonite   |  |
| 3.0   |   |   |           |                                 |  |  |
| 4.0   | Mottled reddish-brown, tan, and brown M-VC SAND, trace GRAVEL     | 28  | 0.0       | Moist                           | 1-inch OD PVC casing   |  |
| 5.0   |   |   |           |                                 |  |  |
| 6.0   |   |   |           |                                 |  |  |
| 7.0   |   |   |           |                                 |  |  |
| 8.0   | Light tannish-brown M-C SAND, trace GRAVEL                        | 38  | 0.0       | Moist                           | Water table  |  |
| 9.0   |   |   |           |                                 |  |  |
| 10.0  |   |   |           |                                 |  |  |
| 11.0  | C-VC SAND, trace GRAVEL   | 45  | 0.0       | Wet                             | Global #5 sandpack   |  |
| 12.0  |   |   |           |                                 |  |  |
| 13.0  | Liner stuck in this interval; material poured out was homogenous. | 46 (approx.)  | 0.0       | Wet                             | 1-inch OD #10 slotted PVC  |  |
| 14.0  |   |   |           |                                 |  |  |
| 15.0  |   |   |           |                                 |  |  |
| 16.0  |   |   | 0.0       | Wet                             |  |  |
| 17.0  |   |   |           |                                 |  |  |
| 18.0  |   |   | 0.0       | Wet                             |  |  |
| 19.0  |   |   |           |                                 |  |  |
| 20.0  |   |   | 0.0       | Wet                             |  |  |
| 21.0  |   |   |           |                                 |  |  |
| 22.0  |   |   | 0.0       | Wet                             |  |  |
| 23.0  |   |   |           |                                 |  |  |
| 24.0  | End of Probe at 24'   |   |           |                                 |  |  |


NOTES: Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           | Soil Probe Designation: <b>TMW-5</b>   |                           |  |
|---|---|---|-----------|--|---------------------------|--|
|   |   |   |           | File No.: <b>2339-356-03-00</b>  |                           |  |
|   |   |   |           | Client: <b>IN Brownfields Prog.</b>  |                           |  |
| Time Started: 12:35   |   | Driller: Rock LLC   |           | Date of Probe: <b>6/20/2014</b>  |                           |  |
| Time Completed: 13:43   |   | Location: Sibley/Accucast   |           | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.40 feet |                           |  |
| Depth to water (ft): 13.5   |   | South Bend, IN  |           |  |                           |  |
| Easting: 3,179,566 Northing: 2,331,342  |   | SAMPLE DATA   |           |  |                           |  |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT   | feet                      |  |
| 1.0   | Pulverized CONCRETE   |   | 0.0       | Dry  |                           |  |
|   | Dark brown SAND, trace GRAVEL   |   |           |  |                           |  |
| 2.0   | Mottled red, tan, and brown M-VC SAND, some GRAVEL  |   | 0.0       | Moist  | Granular bentonite        |  |
| 3.0   | UNKNOWN - No recovery. A void is suspected to exist in this interval. The first probe recovered no material in the 0-8 ft bgs interval. The probe was withdrawn and moved about 2 feet away                                     | 21 inches for the 0-8 ft bgs interval   |           |  |                           |  |
| 4.0   | 21 inches were recovered. The operator reported that the GeoProbe was able to push the casing down with very little resistance in both boreholes. The pneumatic hammer was not needed to advance between the 2-8 foot interval. |   |           |  | 1-inch OD PVC casing      |  |
| 5.0   |   |   |           |  |                           |  |
| 6.0   |   |   |           |  | Water table               |  |
| 7.0   |   |   |           |  |                           |  |
| 8.0   | Mottled red, tan, and brown M-VC SAND, some GRAVEL  |   | 0.0       | Moist  | Global #5 sandpack        |  |
| 9.0   |   |   |           |  |                           |  |
| 10.0  | Light tannish-brown F-M SAND, trace GRAVEL  | 30  | 0.0       | Moist  | 1-inch OD #10 slotted PVC |  |
| 11.0  |   |   |           |  |                           |  |
| 12.0  |   |   | 0.0       | Moist  | End of Probe at 24'       |  |
| 13.0  |   |   |           |  |                           |  |
| 14.0  | Light tannish-brown C-VC SAND, trace GRAVEL   | 38  | 0.0       | Wet  |                           |  |
| 15.0  |   |   |           |  |                           |  |
| 16.0  | Light tannish-brown F-M SAND, trace GRAVEL  |   | 0.0       | Wet  |                           |  |
| 17.0  |   |   |           |  |                           |  |
| 18.0  |   | 47  | 0.0       | Wet  |                           |  |
| 19.0  |   |   |           |  |                           |  |
| 20.0  |   |   | 0.0       | Wet  |                           |  |
| 21.0  |   |   |           |  |                           |  |
| 22.0  |   | 48  | 0.0       | Wet  |                           |  |
| 23.0  |   |   |           |  |                           |  |
| 24.0  |   |   | 0.0       | Wet  |                           |  |


NOTES: Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|  |                                      | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           | Soil Probe Designation: <b>TMW-6</b>   |                           |
|---|--------------------------------------|---|-----------|--|---------------------------|
|   |                                      |   |           | File No.: <b>2339-356-03-00</b>  |                           |
|   |                                      |   |           | Client: <b>IN Brownfields Prog.</b>  |                           |
| Time Started: 9:50  |                                      | Driller: Rock LLC   |           | Date of Probe: 6/20/2014   |                           |
| Time Completed: 10:32   |                                      | Location: Sibley/Accucast   |           | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.39 feet |                           |
| Depth to water (ft): ?  |                                      | South Bend, IN  |           |  |                           |
| Easting: 3,179,632 Northing: 2,331,202  |                                      | SAMPLE DATA   |           |  |                           |
| DEPTH (ft)  | SOIL DESCRIPTION                     | REC (in)  | PID (ppm) | MOISTURE CONTENT   |                           |
| 1.0   | Pulverized CONCRETE                  |   | 0.0       | Dry  |                           |
| 2.0   | Brown M-C SAND, trace GRAVEL         | 26  |           |  |                           |
| 3.0   | Dark gray M-C SAND, some SILT        |   | 0.0       | Moist  |                           |
| 4.0   | Tannish-brown M-C SAND, trace GRAVEL |   | 0.0       | Moist  | Granular bentonite        |
| 5.0   | UNKNOWN - No recovery                | 14  |           |  |                           |
| 6.0   | UNKNOWN - No recovery                |   |           |  |                           |
| 7.0   | UNKNOWN - No recovery                |   |           |  |                           |
| 8.0   | UNKNOWN - No recovery                |   |           |  | 1-inch OD PVC casing      |
| 9.0   | Tan M-C SAND, trace GRAVEL           |   | 0.0       | Moist  |                           |
| 10.0  | Dark gray M-C SAND, some SILT        |   |           |  |                           |
| 11.0  | UNKNOWN - No recovery                | 11  |           |  |                           |
| 12.0  | UNKNOWN - No recovery                |   |           |  |                           |
| 13.0  | UNKNOWN - No recovery                |   |           |  |                           |
| 14.0  | UNKNOWN - No recovery                | 27  |           |  |                           |
| 15.0  | Tannish-brown M-C SAND, trace GRAVEL |   | 0.0       | Wet  | Global #5 sandpack        |
| 16.0  | UNKNOWN - No recovery                |   | 0.0       | Wet  |                           |
| 17.0  | UNKNOWN - No recovery                |   |           |  |                           |
| 18.0  | UNKNOWN - No recovery                | 34  |           |  |                           |
| 19.0  | UNKNOWN - No recovery                |   | 0.0       | Wet  | 1-inch OD #10 slotted PVC |
| 20.0  | UNKNOWN - No recovery                |   |           |  |                           |
| 21.0  | UNKNOWN - No recovery                |   | 0.0       | Wet  |                           |
| 22.0  | UNKNOWN - No recovery                | 48  |           |  |                           |
| 23.0  | UNKNOWN - No recovery                |   | 0.0       | Wet  |                           |
| 24.0  | End of Probe at 24'                  |   |           |  |                           |


NOTES: Subsurface obstructions hindered recovery. Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           | Soil Probe Designation: <b>TMW-7</b>   |                           |
|---|---|---|-----------|--|---------------------------|
|   |   |   |           | File No.: <b>2339-356-03-00</b>  |                           |
|   |   |   |           | Client: <b>IN Brownfields Prog.</b>  |                           |
| Time Started: 13:09   |   | Driller: Rock LLC   |           | Date of Probe: <b>6/19/2014</b>  |                           |
| Time Completed: 14:27   |   | Location: Sibley/Accucast   |           | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.38 feet |                           |
| Depth to water (ft): 12.0   |   | South Bend, IN  |           |  |                           |
| Easting: 2,179,686 Northing: 2,330,897  |   | SAMPLE DATA   |           |  |                           |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT   |                           |
| 1.0   | Black ASPHALT, strong organic odor<br>Pulverized CONCRETE                               |   | 1.0       | Moist  |                           |
| 2.0   | Reddish-brown M-C SAND, interspersed with several 3-inch-thick layers of angular GRAVEL | 38  | 0.9       | Moist  | Granular bentonite        |
| 3.0   |   |   |           |  |                           |
| 4.0   |   |   |           |  |                           |
| 5.0   | VC SAND, some GRAVEL  | 18  | 0.7       | Moist  | 1-inch OD PVC casing      |
| 6.0   |   |   |           |  |                           |
| 7.0   | Light tannish-brown M SAND, trace GRAVEL  | 30  | 0.9       | Moist  | Water table               |
| 8.0   |   |   |           |  |                           |
| 9.0   |   |   |           |  |                           |
| 10.0  | Light tannish-brown C-VC SAND, trace GRAVEL   | 47  | 0.7       | Wet  | Global #5 sandpack        |
| 11.0  |   |   |           |  |                           |
| 12.0  |   |   |           |  |                           |
| 13.0  |   | 42  | 0.6       | Wet  | 1-inch OD #10 slotted PVC |
| 14.0  |   |   |           |  |                           |
| 15.0  |   |   |           |  |                           |
| 16.0  |   |   |           |  |                           |
| 17.0  |   |   |           |  |                           |
| 18.0  |   |   |           |  |                           |
| 19.0  |   |   |           |  |                           |
| 20.0  |   |   |           |  |                           |
| 21.0  |   |   |           |  |                           |
| 22.0  |   |   |           |  |                           |
| 23.0  |   |   |           |  |                           |
| 24.0  | End of Probe at 24'   |   |           |  |                           |

NOTES: Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968


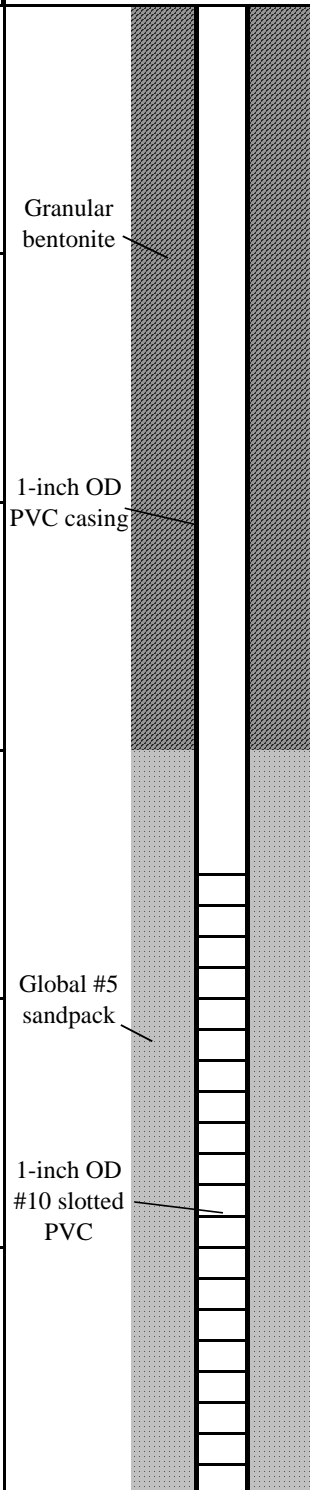
|  |  | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           | Soil Probe Designation: <b>TMW-8</b>   |   |
|---|--|---|-----------|--|---|
|   |  |   |           | File No.: <b>2339-356-03-00</b>  |   |
|   |  |   |           | Client: <b>IN Brownfields Prog.</b>  |   |
| Time Started: 10:35   |  | Driller: Rock LLC   |           | Date of Probe: 6/23/2014   |   |
| Time Completed: 11:21   |  | Location: Sibley/Accucast   |           | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.79 feet |   |
| Depth to water (ft): 12.0   |  | South Bend, IN  |           |  |   |
| Easting: 3,179,515 Northing: 2,331,426  |  | SAMPLE DATA   |           |  |   |
| DEPTH (ft)  | SOIL DESCRIPTION   | REC (in)  | PID (ppm) | MOISTURE CONTENT   |   |
| 1.0   | Oil-stained SAND   | 25  | 0.0       | Wet  | Granular bentonite  |
| 2.0   | ASPHALT chunks and sub-base GRAVEL fill                                      |   |           |  |   |
| 3.0   | Dark brown, almost black F SAND  |   |           |  |   |
| 4.0   | Rust-red chunks of artificial material, possibly brick, cinders, or clinkers |   | 0.0       | Moist  | 1-inch OD PVC casing  |
| 5.0   | Tannish-brown F-M SAND, some GRAVEL  | 24  | 0.0       | Moist  |   |
| 6.0   | SAND with orangish-brown CLAY, some GRAVEL                                   |   |           |  |   |
| 7.0   |  |   | 0.0       | Moist  | Water table   |
| 8.0   | Light tannish-brown M-C SAND, trace GRAVEL                                   | 30  | 0.0       | Moist  |   |
| 9.0   |  |   |           |  |   |
| 10.0  |  |   |           |  |   |
| 11.0  |  |   | 0.0       | Moist  | Global #5 sandpack  |
| 12.0  |  | 38  | 0.0       | Wet  |   |
| 13.0  |  |   |           |  |   |
| 14.0  |  |   |           |  |   |
| 15.0  |  |   | 0.0       | Wet  | 1-inch OD #10 slotted PVC   |
| 16.0  | Tan C-VC SAND, some GRAVEL   | 47  | 0.0       | Wet  |   |
| 17.0  | Light tannish-brown M-C SAND, trace GRAVEL                                   |   |           |  |   |
| 18.0  |  |   | 0.0       | Wet  | Liner stuck in this interval; material poured out was homogenous. |
| 19.0  |  | 48 (approx.)  | 0.0       | Wet  |   |
| 20.0  |  |   |           |  |   |
| 21.0  |  |   | 0.0       | Wet  | End of Probe at 24'   |
| 22.0  |  | 48 (approx.)  | 0.0       | Wet  |   |
| 23.0  |  |   |           |  |   |
| 24.0  |  |   | 0.0       | Wet  |   |

NOTES: Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968


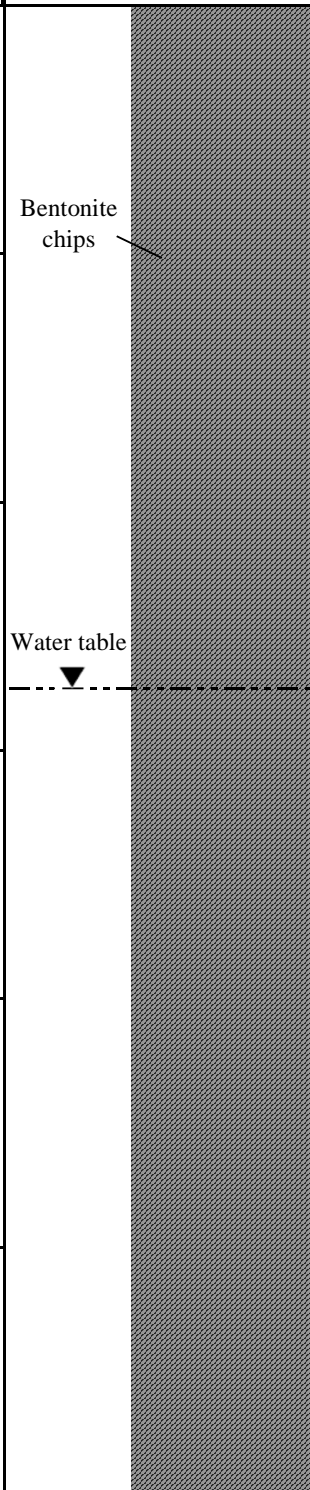
|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |   | Soil Probe Designation: <b>TMW-9</b>   |                           |
|---|---|---|---|--|---------------------------|
|   |   |   |   | File No.: <b>2339-356-03-00</b>  |                           |
|   |   |   |   | Client: <b>IN Brownfields Prog.</b>  |                           |
| Time Started: 13:52   |   | Driller: Rock LLC   |   | Date of Probe: 6/19/2014   |                           |
| Time Completed: 14:30   |   | Location: Sibley/Accucast   |   | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.48 feet |                           |
| Depth to water (ft): 8.0  |   | South Bend, IN  |   |  |                           |
| Easting: 3,179,514 Northing: 2,330,937  |   | SAMPLE DATA   |   |  |                           |
| DEPTH (ft)  | SOIL DESCRIPTION                            | REC (in)  | PID (ppm)   | MOISTURE CONTENT   |                           |
| 1.0   | Dark brown SAND and pulverized CONCRETE     |   | 0.7   | Dry  | Granular bentonite        |
| 2.0   | Pulverized CONCRETE                         | 30  |   |  |                           |
| 3.0   |   |   | 0.6   | Dry  | 1-inch OD PVC casing      |
| 4.0   | Reddish-brown F SAND, some SILT             |   |   |  |                           |
| 5.0   |   |   | Sample was collected from this interval before PID readings were taken. | Moist  |                           |
| 6.0   |   | 11  |   | Moist  |                           |
| 7.0   |   |   |   |  | Global #5 sandpack        |
| 8.0   |   |   |   | Wet  |                           |
| 9.0   | Light tannish-brown M SAND, trace GRAVEL    |   |   |  |                           |
| 10.0  |   |   | 0.5   | Wet  |                           |
| 11.0  |   |   |   |  |                           |
| 12.0  |   | 43 for the 8-16 ft bgs interval   |   | Wet  |                           |
| 13.0  |   |   |   |  |                           |
| 14.0  |   |   | 0.6   | Wet  |                           |
| 15.0  |   |   |   |  |                           |
| 16.0  |   |   |   | Wet  |                           |
| 17.0  |   |   |   |  | 1-inch OD #10 slotted PVC |
| 18.0  | Light tannish-brown C-VC SAND, trace GRAVEL | 48  | 0.4   | Wet  |                           |
| 19.0  | Light tannish-brown M SAND, trace GRAVEL    |   |   |  |                           |
| 20.0  |   |   |   | Wet  |                           |
| 21.0  |   |   |   |  |                           |
| 22.0  |   | 46  | 0.4   | Wet  |                           |
| 23.0  |   |   |   |  |                           |
| 24.0  | End of Probe at 24'                         |   |   |  |                           |

NOTES: Obstruction conflated 8-12 with 12-16 interval. Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968


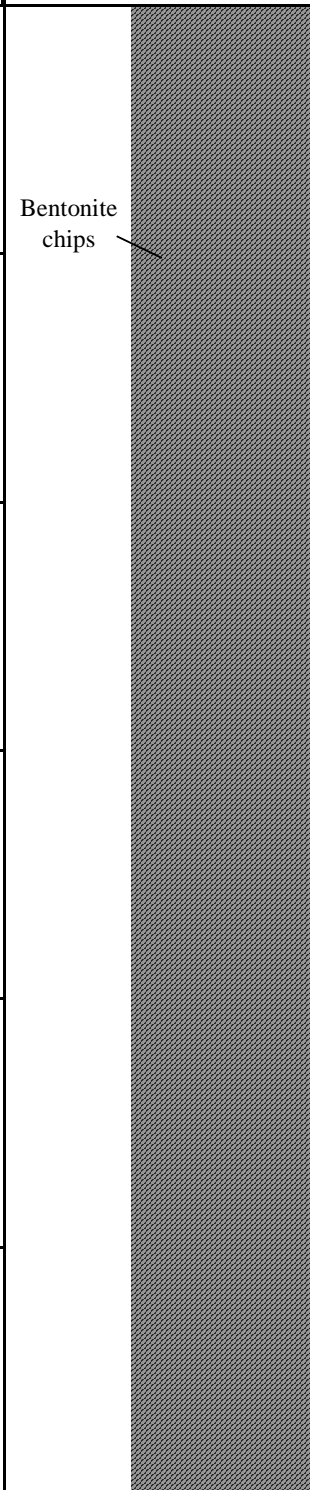


|  |  | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           | Soil Probe Designation: <b>TMW-10</b>  |  |
|---|--|---|-----------|--|--|
|   |  |   |           | File No.: <b>2339-356-03-00</b>  |  |
|   |  |   |           | Client: <b>IN Brownfields Prog.</b>  |  |
| Time Started: 14:30   |  | Driller: Rock LLC   |           | Date of Probe: 6/23/2014   |  |
| Time Completed: 15:17   |  | Location: Sibley/Accucast   |           | Probe completed as 1-inch temporary monitoring well with wellhead stickup of 1.96 feet |  |
| Depth to water (ft): ?  |  | South Bend, IN  |           |  |  |
| Easting: 3,179,563 Northing: 2,330,693  |  | SAMPLE DATA   |           |  |  |
| DEPTH (ft)  | SOIL DESCRIPTION   | REC (in)  | PID (ppm) | MOISTURE CONTENT   |  |
| 1.0   | Black LOAM   | 27  | 0.0       | Dry  |  |
| 1.0   | Crushed ASPHALT  |   |           |  |  |
| 2.0   | Mottled reddish-tan and black F SAND with chunks of shiny black material   |   |           |  |  |
| 3.0   | Reddish-tan SAND with SILT, trace GRAVEL   | 28  | 0.0       | Moist  |  |
| 4.0   |  |   |           |  |  |
| 5.0   | Reddish-tan F-M SAND, trace GRAVEL   | 28  | 0.0       | Moist  |  |
| 6.0   |  |   |           |  |  |
| 7.0   | Tan M SAND, well-sorted  | 28  | 0.0       | Moist  |  |
| 8.0   |  |   |           |  |  |
| 9.0   | Mottled tan, gray, and reddish C-VC SAND interspersed with layers of angular COBBLES                             | 28  | 0.0       | Moist  |  |
| 10.0  |  |   |           |  |  |
| 11.0  |  |   |           |  |  |
| 12.0  | UNKNOWN - No recovery. Large COBBLES at the bottom of the 8-12 ft interval are suspected of preventing recovery. | 0   |           |  |  |
| 13.0  |  |   |           |  |  |
| 14.0  |  |   |           |  |  |
| 15.0  |  |   |           |  |  |
| 16.0  |  | 0   |           |  |  |
| 17.0  |  |   |           |  |  |
| 18.0  |  |   |           |  |  |
| 19.0  | Light tannish-brown M-C SAND, trace GRAVEL   | 41 (approx.)  | 0.0       | Wet  |  |
| 20.0  |  |   |           |  |  |
| 21.0  | Liner stuck in this interval; material poured out was homogenous.  | 0.0   | 0.0       | Wet  |  |
| 22.0  |  |   |           |  |  |
| 23.0  | End of Probe at 24'  |   |           |  |  |


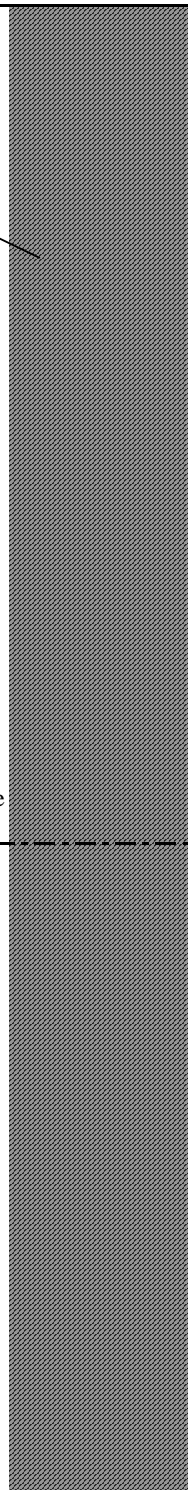

NOTES: Probe completed as temporary 1-inch monitoring well down to 24'.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|   |   |   |           |   |  |  |
|---|---|---|-----------|---|--|--|
|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |   | Soil Probe Designation: <b>P-1</b>   |  |
|   |   | File No.: <b>2339-356-03-00</b>   |           |   |  |  |
|   |   | Client: <b>IN Brownfields Prog.</b>   |           |   |  |  |
| Time Started: 12:20   |   | Driller: <u>Rock LLC</u>  |           | Date of Probe: <b>6/23/2014</b>                             |  |  |
| Time Completed: 12:47   |   | Location: <u>Sibley/Accucast</u>  |           | Probe was backfilled with bentonite chips to ground surface |  |  |
| Depth to water (ft): 11.0   |   | South Bend, IN  |           |   |  |  |
| Easting: 3,179,559 Northing: 2,331,616  |   | SAMPLE DATA   |           |   | Bentonite chips  |  |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT  |  |  |
| 1.0   | Pulverized CONCRETE   |   | 0.0       | Dry   |  |  |
| 2.0   | Mottled rust-red, tan, and orange F-M SAND, mixed with shiny black material which may have been coke pellets or oil-stained sand. | 18  | 0.0       | Moist   |  |  |
| 3.0   |   |   | 0.0       | Moist   |  |  |
| 4.0   |   |   | 0.0       | Moist   |  |  |
| 5.0   |   |   | 0.0       | Moist   |  |  |
| 6.0   |   | 17  | 0.0       | Moist   |  |  |
| 7.0   | Black CLAY  |   | 0.0       | Moist   |  |  |
| 8.0   | Greenish-Gray CLAY  |   | 0.0       | Moist   |  |  |
| 9.0   | Black CLAY  |   | 0.0       | Moist   |  |  |
| 10.0  | Mottled tan and reddish F-VC SAND, with some angular GRAVEL   | 28  | 0.0       | Moist   |  |  |
| 11.0  | Light tannish-brown M-C SAND, trace GRAVEL  |   | 0.0       | Moist   |  |  |
| 12.0  |   |   | 0.0       | Wet   |  |  |
| 13.0  |   |   | 0.0       | Wet   |  |  |
| 14.0  |   | 40  | 0.0       | Wet   |  |  |
| 15.0  |   |   | 0.0       | Wet   |  |  |
| 16.0  |   |   | 0.0       | Wet   |  |  |
| 17.0  |   |   | 0.0       | Wet   |  |  |
| 18.0  | Tan C-VC SAND, trace GRAVEL   |   | 0.0       | Wet   |  |  |
| 19.0  | Light tannish-brown M-C SAND, trace GRAVEL  | 48  | 0.0       | Wet   |  |  |
| 20.0  | 3 inches of dark brown M-C SAND   |   | 0.0       | Wet   |  |  |
| 21.0  | Light tannish-brown M-C SAND, trace GRAVEL  |   | 0.0       | Wet   |  |  |
| 22.0  | Liner stuck in this interval; material poured out was homogenous.   | 45 (approx.)  | 0.0       | Wet   |  |  |
| 23.0  |   |   | 0.0       | Wet   |  |  |
| 24.0  | End of Probe at 24'   |   |           |   |  |  |


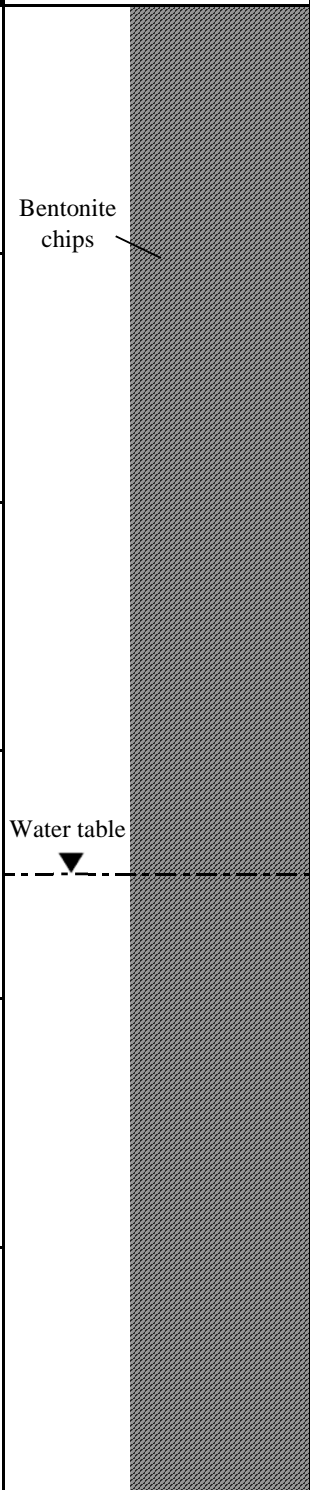
NOTES: Probe was backfilled with bentonite chips after completion.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|   |   |   |           |   |  |  |
|---|---|---|-----------|---|--|--|
|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |   | Soil Probe Designation: <b>P-2</b>   |  |
|   |   |   |           |   | File No.: <b>2339-356-03-00</b>  |  |
|   |   |   |           |   | Client: <b>IN Brownfields Prog.</b>  |  |
| Time Started: 9:45  |   | Driller: Rock LLC   |           | Date of Probe: <b>6/23/2014</b>                             |  |  |
| Time Completed: 10:17   |   | Location: Sibley/Accucast   |           | Probe was backfilled with bentonite chips to ground surface |  |  |
| Depth to water (ft): ?  |   | South Bend, IN  |           |   |  |  |
| Easting: 3,179,662  |   | Northing: 2,331,492   |           | SAMPLE DATA   |  |  |
|   |   |   |           |   |  |  |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT  |  |  |
| 1.0   | Pulverized CONCRETE   |   | 0.0       | Wet   |  |  |
|   | Mottled dark brown and red SAND   |   |           |   |  |  |
| 2.0   | Reddish-brown F-M SAND, trace GRAVEL  | 14  | 0.0       | Moist   |  |  |
| 3.0   |   |   |           |   |  |  |
| 4.0   |   |   |           |   |  |  |
| 5.0   |   |   |           |   |  |  |
| 6.0   | Light tannish-brown M-C SAND, trace GRAVEL. A 4-inch layer at the bottom had significant amounts of SILT.   | 23  | 0.0       | Moist   |  |  |
| 7.0   |   |   |           |   |  |  |
| 8.0   |   |   |           |   |  |  |
| 9.0   | UNKNOWN - liner returned intact but empty for 8-12 and 12-16 ft intervals. A hard point was inserted and driven to 16 ft bgs to clear the obstruction.  | 0   |           |   |  |  |
| 10.0  |   |   |           |   |  |  |
| 11.0  |   |   |           |   |  |  |
| 12.0  |   |   |           |   |  |  |
| 13.0  |   |   |           |   |  |  |
| 14.0  |   |   |           |   |  |  |
| 15.0  | Light tannish-brown M-C SAND, trace GRAVEL. The use of the hard point to clear an obstruction allowed large amounts of accumulated stormwater at the surface to flow into the borehole, reducing recovery from the 16-24 ft interval. | 17  | 0.0       | Wet   |  |  |
| 17.0  |   |   |           |   |  |  |
| 18.0  |   |   |           |   |  |  |
| 19.0  |   |   |           |   |  |  |
| 20.0  | End of Probe at 24'   | 23  | 0.0       | Wet   |  |  |
| 21.0  |   |   |           |   |  |  |
| 22.0  |   |   |           |   |  |  |
| 23.0  |   |   |           |   |  |  |
| 24.0  |   |   |           |   |  |  |


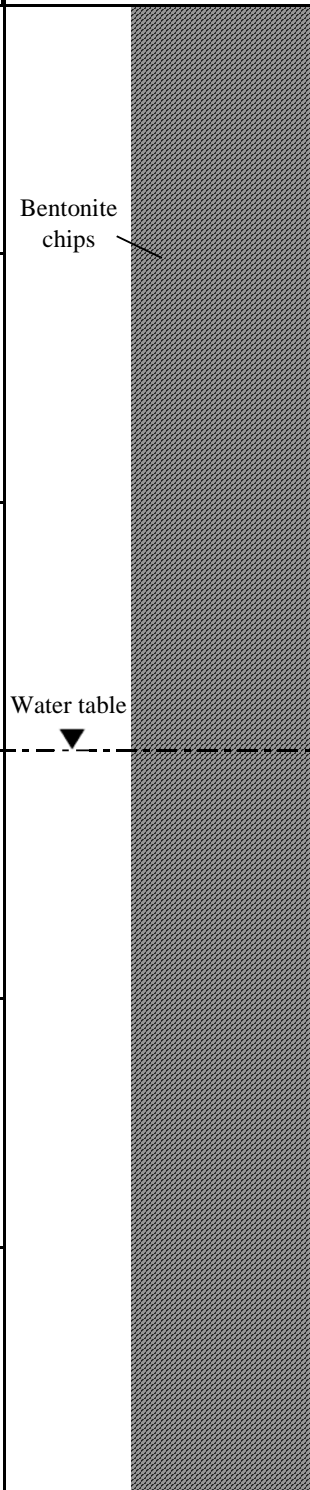
NOTES: Heavy rain prior to soil probing hampered recovery. Water at surface continuously flowed down borehole. Probe was backfilled with bentonite chips after completion. Logged by Alex Huang, checked by S.Stanford, IN LPG #968

|   |   |   |           |   |  |  |
|---|---|---|-----------|---|--|--|
|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |   | Soil Probe Designation: <b>P-3</b>   |  |
|   |   |   |           |   | File No.: <b>2339-356-03-00</b>  |  |
|   |   |   |           |   | Client: <b>IN Brownfields Prog.</b>  |  |
| Time Started: 9:48  |   | Driller: Rock LLC   |           | Date of Probe: <b>6/19/2014</b>                             |  |  |
| Time Completed: 10:15   |   | Location: Sibley/Accucast   |           | Probe was backfilled with bentonite chips to ground surface |  |  |
| Depth to water (ft): 13.5   |   | South Bend, IN  |           |   |  |  |
| Easting: 3,179,823  |   | Northing: 2,331,489   |           | SAMPLE DATA   |  |  |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) |   |  |  |
| 1.0   | Black LOAM  | 31  | 1.7       | Moist   |  Bentonite chips |  |
| 2.0   | Gray crushed concrete and aggregate comprising SAND, cement dust, and angular GRAVEL          |   |           |   |  |  |
| 3.0   | Black SAND and some SILT - compacted and hardened   |   |           |   |  |  |
| 4.0   | Mottled rust-red and reddish-brown M-VC SAND with some chunks of material resembling clinkers | 29  | 2.6       | Moist   |  |  |
| 5.0   |   |   |           |   |  |  |
| 6.0   | Dark brown M SAND with some GRAVEL and mixed with a material resembling pulverized brick      |   |           |   |  |  |
| 7.0   |   | 24  | 2.6       | Moist   |  |  |
| 8.0   | Mottled light tannish-brown, orange, and rust-red M-C SAND with GRAVEL                        |   |           |   |  |  |
| 9.0   |   |   |           |   |  |  |
| 10.0  |   | 39  | 1.5       | Moist   |  | Water table<br> |
| 11.0  |   |   |           |   |  |  |
| 12.0  | Tan M SAND, well-sorted   |   | 48        | 1.4   | Wet  |  |
| 13.0  |   |   |           |   |  |  |
| 14.0  |   |   |           |   |  |  |
| 15.0  |   | 47  | 1.6       | Wet   |  |  |
| 16.0  |   |   |           |   |  |  |
| 17.0  |   |   |           |   |  |  |
| 18.0  |   | 47  | 1.4       | Wet   |  |  |
| 19.0  |   |   |           |   |  |  |
| 20.0  |   |   |           |   |  |  |
| 21.0  | Light tannish-brown M-VC SAND, trace GRAVEL   | 47  | 1.4       | Wet   |  |  |
| 22.0  |   |   |           |   |  |  |
| 23.0  |   |   |           |   |  |  |
| 24.0  | End of Probe at 24'   |   |           |   |  |  |


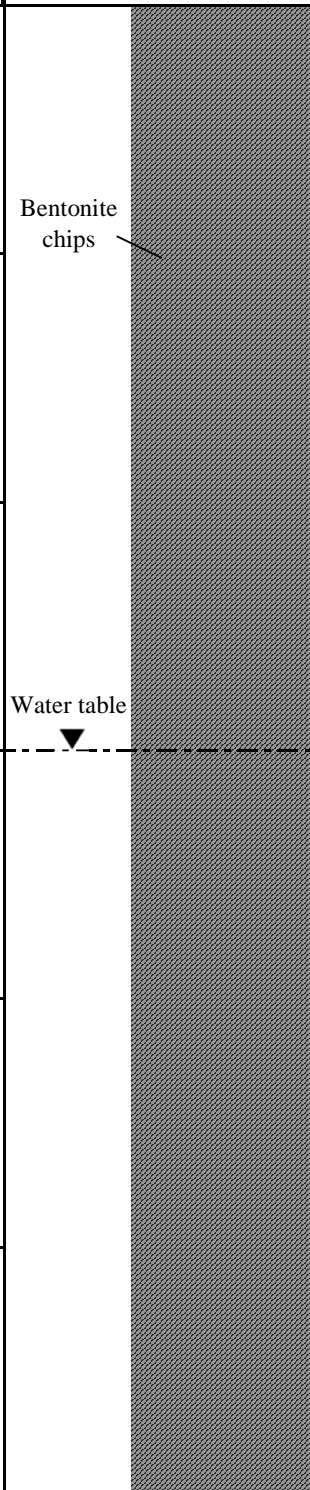
NOTES: Probe was backfilled with bentonite chips after completion.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|  |  | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |   | Soil Probe Designation: <b>P-4</b>   |  |
|---|--|---|-----------|---|--|--|
|   |  |   |           |   | File No.: <b>2339-356-03-00</b>  |  |
|   |  |   |           |   | Client: <b>IN Brownfields Prog.</b>  |  |
| Time Started: 10:30   |  | Driller: Rock LLC   |           | Date of Probe: <b>6/19/2014</b>                             |  |  |
| Time Completed: 11:04   |  | Location: Sibley/Accucast   |           | Probe was backfilled with bentonite chips to ground surface |  |  |
| Depth to water (ft): 14.0   |  | South Bend, IN  |           |   |  |  |
| Easting: 3,179,796  |  | Northing: 2,331,324   |           | SAMPLE DATA   |  |  |
|   |  |   |           |   |  |  |
| DEPTH (ft)  | SOIL DESCRIPTION   | REC (in)  | PID (ppm) | MOISTURE CONTENT  |  |  |
| 1.0   | Black LOAM   | 28  | 3.0       | Moist   |  |  |
|   | Dark brown C SAND and trace GRAVEL   |   |           |   |  |  |
| 2.0   | Light gray VC SAND and angular GRAVEL  |   |           |   |  |  |
| 3.0   | Reddish-brown M-C SAND, trace GRAVEL and trace SILT  | 23  | 4.5       | Moist   |  |  |
| 4.0   |  |   |           |   |  |  |
| 5.0   |  |   |           |   |  |  |
| 6.0   | Mottled gray and rust-red C-VC SAND with some GRAVEL   | 34  | 4.2       | Moist   |  |  |
| 7.0   |  |   |           |   |  |  |
| 8.0   |  |   |           |   |  |  |
| 9.0   | Light tannish-brown M-C SAND, trace GRAVEL   | 42  | 2.7       | Moist   |  |  |
| 10.0  |  |   |           |   |  |  |
| 11.0  |  |   |           |   |  |  |
| 12.0  | Macro liner was used from 20-25' interval instead of standard 4' liner. The material from this interval was poured out onto a sheet for observation, and was found to be homogenous. | 50 (approx.)  | 2.1       | Wet   |  |  |
| 13.0  |  |   |           |   |  |  |
| 14.0  |  |   |           |   |  |  |
| 15.0  | End of Probe at 25'  | 46  | 3.2       | Wet   |  |  |
| 16.0  |  |   |           |   |  |  |
| 17.0  |  |   |           |   |  |  |
| 18.0  |  | 50 (approx.)  | 1.7       | Wet   |  |  |
| 19.0  |  |   |           |   |  |  |
| 20.0  |  |   |           |   |  |  |
| 21.0  |  | 50 (approx.)  | 1.7       | Wet   |  |  |
| 22.0  |  |   |           |   |  |  |
| 23.0  |  |   |           |   |  |  |
| 24.0  |  | 50 (approx.)  | 1.7       | Wet   |  |  |
| 25.0  |  |   |           |   |  |  |


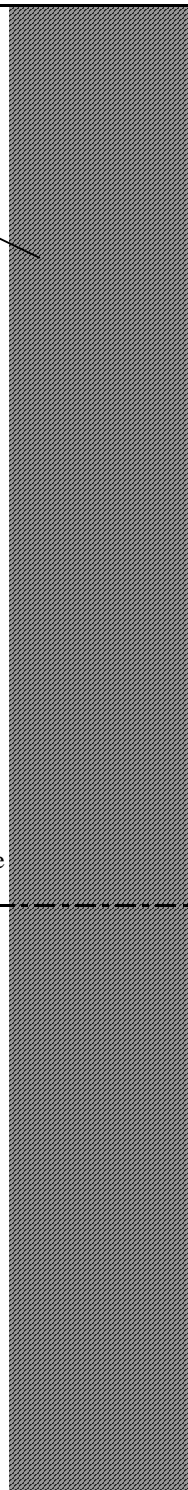
NOTES: Probe backfilled with bentonite chips at completion.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|   |   |   |           |   |  |  |
|---|---|---|-----------|---|--|--|
|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |   | Soil Probe Designation: <b>P-5</b>   |  |
|   |   |   |           |   | File No.: <b>2339-356-03-00</b>  |  |
|   |   |   |           |   | Client: <b>IN Brownfields Prog.</b>  |  |
| Time Started: <u>10:45</u>  |   | Driller: <u>Rock LLC</u>  |           | Date of Probe: <b>6/20/2014</b>                             |  |  |
| Time Completed: <u>11:22</u>  |   | Location: <u>Sibley/Accucast</u>  |           | Probe was backfilled with bentonite chips to ground surface |  |  |
| Depth to water (ft): <u>12.0</u>  |   | South Bend, IN  |           |   |  |  |
| Easting: <u>3,179,652</u> Northing: <u>2,331,227</u>                              |   | SAMPLE DATA   |           |   |  |  |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT  |  |  |
| 1.0   | Pulverized CONCRETE   |   | 0.0       | Dry   |  |  |
| 2.0   | Dark brown SAND and SILT, very firm                               |   |           |   |  |  |
| 3.0   | Tannish-brown F-M SAND, trace GRAVEL                              | 29  | 0.0       | Moist   |  |  |
| 4.0   |   |   | 0.0       | Moist   |  |  |
| 5.0   |   |   |           |   |  |  |
| 6.0   | Mottled gray, red, and tan C-VC SAND, trace GRAVEL                | 24  | 0.0       | Moist   |  |  |
| 7.0   |   |   |           |   |  |  |
| 8.0   |   |   |           |   |  |  |
| 9.0   | Light tannish-brown M-C SAND, trace GRAVEL                        |   | 0.0       | Moist   |  |  |
| 10.0  |   | 33  |           |   |  |  |
| 11.0  |   |   | 0.0       | Moist   |  |  |
| 12.0  |   |   |           |   |  |  |
| 13.0  |   |   | 0.0       | Wet   |  |  |
| 14.0  |   | 32  |           |   |  |  |
| 15.0  |   |   | 0.0       | Wet   |  |  |
| 16.0  |   |   |           |   |  |  |
| 17.0  |   |   | 0.0       | Wet   |  |  |
| 18.0  |   | 47  |           |   |  |  |
| 19.0  |   |   | 0.0       | Wet   |  |  |
| 20.0  |   |   |           |   |  |  |
| 21.0  |   |   | 0.0       | Wet   |  |  |
| 22.0  | Liner stuck in this interval; material poured out was homogenous. | 40 (approx.)  |           |   |  |  |
| 23.0  |   |   | 0.0       | Wet   |  |  |
| 24.0  | End of Probe at 24'   |   |           |   |  |  |

NOTES: Probe was backfilled with bentonite chips after completion.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968


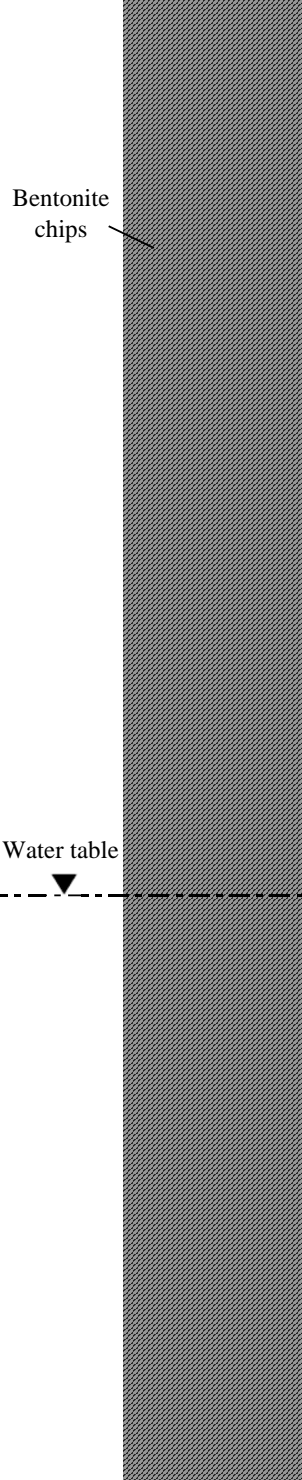
|   |   |   |           |   |  |  |
|---|---|---|-----------|---|--|--|
|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |   | Soil Probe Designation: <b>P-6</b>   |  |
|   |   |   |           |   | File No.: <b>2339-356-03-00</b>  |  |
|   |   |   |           |   | Client: <b>IN Brownfields Prog.</b>  |  |
| Time Started: 9:05  |   | Driller: <u>Rock LLC</u>  |           | Date of Probe: <b>6/20/2014</b>                             |  |  |
| Time Completed: 9:39  |   | Location: <u>Sibley/Accucast</u>  |           | Probe was backfilled with bentonite chips to ground surface |  |  |
| Depth to water (ft): 12.0   |   | <u>South Bend, IN</u>   |           |   |  |  |
| Easting: 3,179,511    Northing: 2,331,150   |   | SAMPLE DATA   |           |   |  |  |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) | MOISTURE CONTENT  |  |  |
| 1.0   | Pulverized CONCRETE   |   | 0.0       | Moist   |  |  |
|   | Dark brown sub-base SAND and SILT                                 |   |           |   |  |  |
| 2.0   | Brownish M SAND, trace SILT                                       | 32  | 0.0       | Moist   |  |  |
| 3.0   |   |   |           |   |  |  |
| 4.0   | Angular GRAVEL and SAND   |   | 0.0       | Moist   |  |  |
| 5.0   | Mottled yellowish-tan, gray, and rust-red C-VC SAND, some GRAVEL  | 16  | 0.0       | Moist   |  |  |
| 6.0   |   |   |           |   |  |  |
| 7.0   |   |   |           |   |  |  |
| 8.0   |   |   |           |   |  |  |
| 9.0   |   |   | 0.0       | Moist   |  |  |
| 10.0  | Light tannish-brown M-C SAND, trace GRAVEL                        | 32  | 0.0       | Moist   |  |  |
| 11.0  |   |   |           |   |  |  |
| 12.0  |   |   |           |   |  |  |
| 13.0  |   |   |           |   |  |  |
| 14.0  |   |   | 0.0       | Wet   |  |  |
| 15.0  |   |   | 0.0       | Wet   |  |  |
| 16.0  |   |   | 0.0       | Wet   |  |  |
| 17.0  |   |   | 0.0       | Wet   |  |  |
| 18.0  |   |   | 0.0       | Wet   |  |  |
| 19.0  |   |   | 0.0       | Wet   |  |  |
| 20.0  |   |   | 0.0       | Wet   |  |  |
| 21.0  |   |   | 0.0       | Wet   |  |  |
| 22.0  | Liner stuck in this interval; material poured out was homogenous. | 48 (approx.)  | 0.0       | Wet   |  |  |
| 23.0  |   |   |           |   |  |  |
| 24.0  | End of Probe at 24'   |   |           |   |  |  |

NOTES: Probe was backfilled with bentonite chips after completion.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968


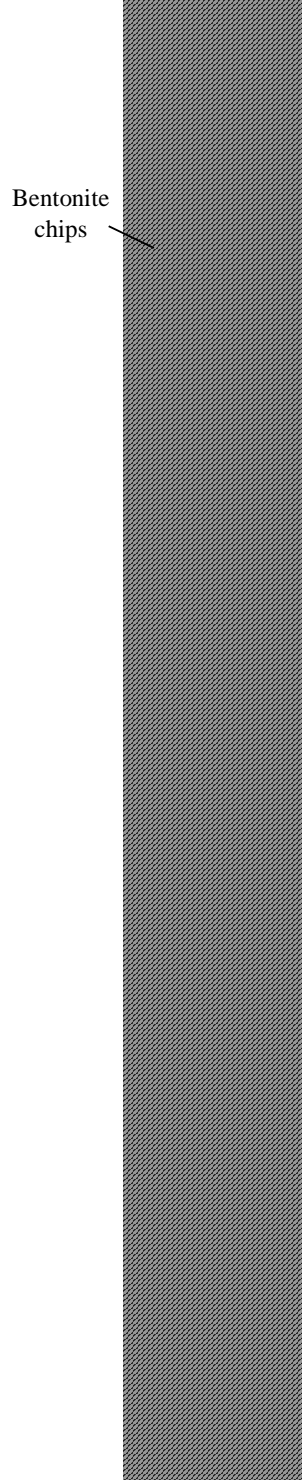
|   |   |   |           |   |  |  |
|---|---|---|-----------|---|--|--|
|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |   | Soil Probe Designation: <b>P-7</b>   |  |
|   |   |   |           |   | File No.: <b>2339-356-03-00</b>  |  |
|   |   |   |           |   | Client: <b>IN Brownfields Prog.</b>  |  |
| Time Started: 11:21   |   | Driller: Rock LLC   |           | Date of Probe: <b>6/19/2014</b>                             |  |  |
| Time Completed: 11:50   |   | Location: Sibley/Accucast   |           | Probe was backfilled with bentonite chips to ground surface |  |  |
| Depth to water (ft): 14.5   |   | South Bend, IN  |           |   |  |  |
| Easting: 3,179,759  |   | Northing: 2,331,156   |           | SAMPLE DATA   |  |  |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) |   |  |  |
| 1.0   | Black LOAM  | 30  | 0.3       | Moist   |  Bentonite chips |  |
|   | Pulverized CONCRETE   |   |           |   |  |  |
| 2.0   | Black M SAND - likely used foundry sand                         |   |           |   |  |  |
| 3.0   | Dark brown SAND with significant amounts of SILT - very pliable | 25  | 0.4       | Moist   |  |  |
| 4.0   |   |   |           |   |  |  |
| 5.0   | Mottled reddish-brown and light tan M SAND, trace GRAVEL        |   |           |   |  |  |
| 6.0   |   | 24  | 1.1       | Moist   |  |  |
| 7.0   |   |   |           |   |  |  |
| 8.0   |   |   |           |   |  |  |
| 9.0   | Angular GRAVEL with SAND  | 37  | 3.3       | Wet   |  |  |
| 10.0  | Light tannish-brown M-C SAND, trace GRAVEL                      |   |           |   |  |  |
| 11.0  |   |   |           |   |  |  |
| 12.0  |   | 46  | 1.1       | Wet   |  |  |
| 13.0  |   |   |           |   |  |  |
| 14.0  |   |   |           |   |  |  |
| 15.0  | Light tannish-brown C-VC SAND, trace GRAVEL                     | 44  | 1.2       | Wet   |  |  |
| 16.0  |   |   |           |   |  |  |
| 17.0  |   |   |           |   |  |  |
| 18.0  | Light tannish-brown M-C SAND, trace GRAVEL                      |   |           |   |  |  |
| 19.0  |   |   |           |   |  |  |
| 20.0  |   |   |           |   |  |  |
| 21.0  |   |   |           |   |  |  |
| 22.0  |   |   |           |   |  |  |
| 23.0  |   |   |           |   |  |  |
| 24.0  | End of Probe at 24'   |   |           |   |  |  |

NOTES: Probe was backfilled with bentonite chips after completion.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968




|   |  |   |           |   |  |  |
|---|--|---|-----------|---|--|--|
|  |  | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |   | Soil Probe Designation: <b>P-8</b>   |  |
|   |  |   |           |   | File No.: <b>2339-356-03-00</b>  |  |
|   |  |   |           |   | Client: <b>IN Brownfields Prog.</b>  |  |
| Time Started: 12:12   |  | Driller: Rock LLC   |           | Date of Probe: <b>6/19/2014</b>                             |  |  |
| Time Completed: 12:58   |  | Location: Sibley/Accucast   |           | Probe was backfilled with bentonite chips to ground surface |  |  |
| Depth to water (ft): 14.5   |  | South Bend, IN  |           |   |  |  |
| Easting: 3,179,725  |  | Northing: 2,331,003   |           | SAMPLE DATA   |  |  |
| DEPTH (ft)  | SOIL DESCRIPTION   | REC (in)  | PID (ppm) |   |  |  |
| 1.0   | Black, wet, F SAND mixed with large amounts of SILT, left muddy residue and gave off no discernible odors. | 48 (approx.)  | 1.7       | Wet   |  |  |
| 2.0   | Gray pulverized CONCRETE and brown SAND. Liner was full, and material fell out of the bottom.              |   | 0.8       | Dry   |  |  |
| 3.0   |  | 28  | 1.7       | Wet   |  |  |
| 4.0   | Black, wet, F SAND mixed with large amounts of SILT, left muddy residue and gave off no discernible odors. |   | 1.5       | Moist   |  |  |
| 5.0   | Reddish-brown F-M SAND, trace GRAVEL   | 27  |           | Moist   |  |  |
| 6.0   |  |   | 1.5       | Moist   |  |  |
| 7.0   | Reddish-brown F-VC SAND, mixed with some GRAVEL and CONCRETE fragments and cement dust                     | 31  |           | Moist   |  |  |
| 8.0   |  |   | 1.2       | Moist   |  |  |
| 9.0   | Light tannish-brown M-C SAND, trace GRAVEL   | 37  |           | Wet   |  |  |
| 10.0  |  |   | 1.6       | Wet   |  |  |
| 11.0  | Light tannish-brown VC SAND, trace GRAVEL  | 45  |           | Wet   |  |  |
| 12.0  |  |   | 2.3       | Wet   |  |  |
| 13.0  | Light tannish-brown M-C SAND, trace GRAVEL   | 45  |           | Wet   |  |  |
| 14.0  |  |   | 1.6       | Wet   |  |  |
| 15.0  | End of Probe at 24'  |   |           |   |  |  |

NOTES: Probe was backfilled with bentonite chips after completion.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|  |  | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           | Soil Probe Designation: <b>P-9</b>  |  |
|---|--|---|-----------|---|--|
|   |  |   |           | File No.: <b>2339-356-03-00</b>   |  |
|   |  |   |           | Client: <b>IN Brownfields Prog.</b>   |  |
| Time Started: 14:45   |  | Driller: Rock LLC   |           | Date of Probe: <b>6/19/2014</b>   |  |
| Time Completed: 15:27   |  | Location: Sibley/Accucast   |           | Probe was backfilled with bentonite chips to ground surface<br><br> |  |
| Depth to water (ft): ?  |  | South Bend, IN  |           |   |  |
| Easting: 2,179,576 Northing: 2,331,036  |  | SAMPLE DATA   |           |   |  |
| DEPTH (ft)  | SOIL DESCRIPTION   | REC (in)  | PID (ppm) | MOISTURE CONTENT  |  |
| 1.0   | Pulverized CONCRETE  |   | 2.7       | Dry   |  |
| 2.0   | Reddish-brown F-C SAND, trace GRAVEL   | 25  |           |   |  |
| 3.0   |  |   | 0.6       | Dry   |  |
| 4.0   |  |   |           |   |  |
| 5.0   | VERY LOW RECOVERY - Unfavorably dry conditions caused the casing to come loose while still immured in the ground. Efforts to free the casing and retrieve the liner caused large amounts of pulverized concrete to fall into the borehole and into the liner. When the liner was recovered, it contained approx. 6-7 inches of pulverized CONCRETE sandwiched in the middle of approx. 10 inches of light tannish-brown well-sorted SAND. The interval from which the sand was taken is unknown. The sand was moist. | 17 inches for the intervals 4-8 and 8-12 ft bgs   |           |   |  |
| 6.0   |  |   |           |   |  |
| 7.0   |  |   |           |   |  |
| 8.0   |  |   |           |   |  |
| 9.0   |  |   |           |   |  |
| 10.0  |  |   |           |   |  |
| 11.0  |  |   |           |   |  |
| 12.0  |  |   |           |   |  |
| 13.0  | Light tannish-brown M SAND, well-sorted  |   |           | Wet   |  |
| 14.0  | Light tannish-brown M-C SAND, trace GRAVEL   | 33  | 0.7       | Wet   |  |
| 15.0  |  |   |           | Wet   |  |
| 16.0  |  |   |           | Wet   |  |
| 17.0  | Light tannish-brown C-VC SAND, trace GRAVEL  | 45  | 0.4       | Wet   |  |
| 18.0  |  |   |           | Wet   |  |
| 19.0  | Light tannish-brown M-C SAND, trace GRAVEL   |   |           | Wet   |  |
| 20.0  |  |   |           | Wet   |  |
| 21.0  |  |   |           | Wet   |  |
| 22.0  |  | 47  | 0.5       | Wet   |  |
| 23.0  |  |   |           | Wet   |  |
| 24.0  | End of Probe at 24'  |   |           |   |  |

NOTES: Probe was backfilled with bentonite chips after completion.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

|   |   |   |           |   |                                     |  |
|---|---|---|-----------|---|-------------------------------------|--|
|  |   | 7121 Grape Road<br>Granger, IN 46530<br>(574) 271-3447 Tel<br>(574) 271-3343 Fax<br>http://www.weaverboos.com |           |   | Soil Probe Designation: <b>P-10</b> |  |
|   |   |   |           |   | File No.: <b>2339-356-03-00</b>     |  |
|   |   |   |           |   | Client: <b>IN Brownfields Prog.</b> |  |
| Time Started: 15:25   |   | Driller: Rock LLC   |           | Date of Probe: <b>6/23/2014</b>                             |                                     |  |
| Time Completed: 14:10   |   | Location: Sibley/Accucast   |           | Probe was backfilled with bentonite chips to ground surface |                                     |  |
| Depth to water (ft): 16.0   |   | South Bend, IN  |           |   |                                     |  |
| Easting: 3,179,560  |   | Northing: 2,330,774   |           | SAMPLE DATA   |                                     |  |
| DEPTH (ft)  | SOIL DESCRIPTION  | REC (in)  | PID (ppm) |   |                                     |  |
| 1.0   | Black LOAM  | 24  | 0.0       | Moist   | Bentonite chips                     |  |
| 2.0   | Mottled black, rust-red, and tan F-C SAND with clumps of black material |   |           |   |                                     |  |
| 3.0   | Tannish-gray SILT and SAND, with trace GRAVEL mixed in                  |   |           |   |                                     |  |
| 4.0   |   | 21  | 0.0       | Moist   |                                     |  |
| 5.0   | Reddish-brown F-M SAND, trace GRAVEL                                    |   |           |   |                                     |  |
| 6.0   |   | 25  | 0.0       | Moist   |                                     |  |
| 7.0   | Mottled black, rust-red, and tan C-VC SAND, with some angular GRAVEL    |   |           |   |                                     |  |
| 8.0   |   |   |           |   |                                     |  |
| 9.0   |   | 32  | 0.0       | Moist   |                                     |  |
| 10.0  | Light tannish-brown M-C SAND, trace GRAVEL                              |   |           |   |                                     |  |
| 11.0  |   |   |           |   |                                     |  |
| 12.0  |   | 41  | 0.0       | Moist   |                                     |  |
| 13.0  |   |   |           |   |                                     |  |
| 14.0  |   |   |           |   |                                     |  |
| 15.0  |   | 47 (approx.)  | 0.0       | Wet   |                                     |  |
| 16.0  |   |   |           |   |                                     |  |
| 17.0  |   |   |           |   |                                     |  |
| 18.0  | Tan-brown C-VC SAND, trace GRAVEL                                       | 47 (approx.)  | 0.0       | Wet   |                                     |  |
| 19.0  |   |   |           |   |                                     |  |
| 20.0  |   |   |           |   |                                     |  |
| 21.0  |   | 47 (approx.)  | 0.0       | Wet   |                                     |  |
| 22.0  |   |   |           |   |                                     |  |
| 23.0  |   |   |           |   |                                     |  |
| 24.0  | End of Probe at 24'   |   |           |   |                                     |  |

NOTES: Probe was backfilled with bentonite chips after completion.  
 Logged by: Alex Huang, checked by S.Stanford, IN LPG #968

# **APPENDIX D**

Groundwater Sampling Field Forms

**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00

Facility: Former Sibley/Accucast Foundry

Address: 220 W. Eckman Street

Project Name: Sibley-Accucast

Date: 7/2/2014

Sample I.D.: TMW-1

Sample Source: TMW-1

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/N)   
Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 15:00 End Purge 15:25

Water Volume in Casing (gallons) 0.49 Volume purged (gallons) 2

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)  
Stick up \_\_\_\_\_ (inches)  
Water Level 13.22 (feet)  
Total Depth 25.12 (feet)  
Height of Water Col. 11.9 (feet)

|      |             |             |             |  |            |
|------|-------------|-------------|-------------|--|------------|
| pH   | <u>7.23</u> | <u>7.20</u> | <u>7.17</u> |  | (std.)     |
| SC   | <u>270</u>  | <u>420</u>  | <u>910</u>  |  | (umhos.cm) |
| Temp | <u>22.4</u> | <u>22.4</u> | <u>21.4</u> |  | °C         |

Note:

**WELL RECHARGE**

(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014

Sampling Time: 15:25

Sample Appearance and Odor: Slight grey turbidity, no odor.

Weather Conditions: overcast

Sample Containers: 7

Comments:

Sampler Name (Print): Alex Huang

Signature: Alex Huang

**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00  
Facility: Former Sibley/Accucast Foundry  
Address: 220 W. Eckman Street  
Project Name: Sibley-Accucast  
Date: 7/2/2014

Sample I.D.: TMW-2 Sample Source: TMW-2

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/N)  
Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 15:45 End Purge 16:20  
Water Volume in Casing (gallons) 0.45 Volume purged (gallons) 3

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)  
Stick up \_\_\_\_\_ (inches)  
Water Level 14.10 (feet)  
Total Depth 25.05 (feet)  
Height of Water Col. 10.95 (feet)

|      |             |             |             |            |
|------|-------------|-------------|-------------|------------|
| pH   | <u>7.48</u> | <u>7.40</u> | <u>7.41</u> | (std.)     |
| SC   | <u>980</u>  | <u>920</u>  | <u>900</u>  | (umhos.cm) |
| Temp | <u>21.9</u> | <u>21.2</u> | <u>20.3</u> | ©          |

Note:

**WELL RECHARGE**  
(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014  
Sampling Time: 16:20  
Sample Appearance and Odor: slight turbidity, no odor,  
Weather Conditions: overcast  
Sample Containers: 7  
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler Name (Print): Alex Huang

Signature: Alex Huang

**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00

Facility: Former Sibley/Accucast Foundry

Address: 220 W. Eckman Street

Project Name: Sibley-Accucast

Date: 7/2/2014

Sample I.D.: TMW-3

Sample Source: TMW-3

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/N)   
Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 16:45 End Purge 17:20

Water Volume in Casing (gallons) 0.40 Volume purged (gallons) 3

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)  
Stick up \_\_\_\_\_ (inches)  
Water Level 14.63 (feet)  
Total Depth 24.44 (feet)  
Height of Water Col. 9.81 (feet)

|      |             |             |             |  |            |
|------|-------------|-------------|-------------|--|------------|
| pH   | <u>7.14</u> | <u>7.17</u> | <u>7.16</u> |  | (std.)     |
| SC   | <u>810</u>  | <u>890</u>  | <u>860</u>  |  | (umhos.cm) |
| Temp | <u>22.0</u> | <u>21.9</u> | <u>21.0</u> |  | °C         |

Note:

**WELL RECHARGE**

(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014

Sampling Time: 18:20

Sample Appearance and Odor: slight grayish turbidity, no odor

Weather Conditions: overcast

Sample Containers: 7

Comments:

EQ Blank taken @ 18:20, IDW @ 18:00

Sampler Name (Print): Alex Huang

Signature: Alex Huang

**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00

Facility: Former Sibley/Accucast Foundry

Address: 220 W. Eckman Street

Project Name: Sibley-Accucast

Date: 7/2/2014

Sample I.D.: TMW-4

Sample Source: TMW-4

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/N)   
 Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 12:40 End Purge 12:55

Water Volume in Casing (gallons) 0.45 Volume purged (gallons) 2 gal

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)  
 Stick up \_\_\_\_\_ (inches)  
 Water Level 14.00 (feet)  
 Total Depth 24.96 (feet)  
 Height of Water Col. 10.96 (feet)

|      |             |             |             |  |            |
|------|-------------|-------------|-------------|--|------------|
| pH   | <u>7.36</u> | <u>7.37</u> | <u>7.36</u> |  | (std.)     |
| SC   | <u>1030</u> | <u>980</u>  | <u>980</u>  |  | (umhos.cm) |
| Temp | <u>22.2</u> | <u>22.7</u> | <u>22.0</u> |  | °C         |

Note:

**WELL RECHARGE**

(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014

Sampling Time: 12:55

Sample Appearance and Odor: light tan trans becont. no odors

Weather Conditions: partly cloudy

Sample Containers: 7

Comments: \_\_\_\_\_

Sampler Name (Print): Alex Huang

Signature: Alex Huang



**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00  
Facility: Former Sibley/Accucast Foundry  
Address: 220 W. Eckman Street  
Project Name: Sibley-Accucast  
Date: 7/2/2014

Sample I.D.: TAW5 Sample Source: TAW-5

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/N)   
Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 13:45 End Purge 19:00

Water Volume in Casing (gallons) 0.45 Volume purged (gallons) 2.75

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)  
Stick up \_\_\_\_\_ (inches)  
Water Level 13.90 (feet)  
Total Depth 24.85 (feet)  
Height of Water Col. 10.95 (feet)

|      |             |             |             |  |            |
|------|-------------|-------------|-------------|--|------------|
| pH   | <u>7.41</u> | <u>7.78</u> | <u>7.38</u> |  | (std.)     |
| SC   | <u>1020</u> | <u>1060</u> | <u>1090</u> |  | (umhos.cm) |
| Temp | <u>21.2</u> | <u>21.0</u> | <u>20.1</u> |  | °C         |

Note:

**WELL RECHARGE**  
(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014  
Sampling Time: 14:00  
Sample Appearance and Odor: Slight grey turbidity.  
Weather Conditions: Mostly cloudy  
Sample Containers: 7  
Comments: \_\_\_\_\_

Sampler Name (Print): Alex Huang

Signature: Alex Huang

**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00

Facility: Former Sibley/Accucast Foundry

Address: 220 W. Eckman Street

Project Name: Sibley-Accucast

Date: 7/2/2014

Sample I.D.: TMW-6

Sample Source: TMW-6

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/N)   
Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 13:05 End Purge 13:30

Water Volume in Casing (gallons) 0.48 Volume purged (gallons) 1.5

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)

Stick up \_\_\_\_\_ (inches)

Water Level 13.07 (feet)

Total Depth 24.71 (feet)

Height of Water Col. 11.64 (feet)

|      |             |             |             |  |            |
|------|-------------|-------------|-------------|--|------------|
| pH   | <u>7.24</u> | <u>7.24</u> | <u>7.22</u> |  | (std.)     |
| SC   | <u>1030</u> | <u>1080</u> | <u>1040</u> |  | (umhos.cm) |
| Temp | <u>22.3</u> | <u>22.0</u> | <u>21.4</u> |  | °C         |

Note:

**WELL RECHARGE**

(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014

Sampling Time: 13:30

Sample Appearance and Odor: light gray, in slight turbidity, no odor

Weather Conditions: Mostly cloudy

Sample Containers: 2x2 - deep 10 taken here.

Comments: "6a - Deep"

Sampler Name (Print): Alex Huang

Signature: Alex Huang

**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00

Facility: Former Sibley/Accucast Foundry

Address: 220 W. Eckman Street

Project Name: Sibley-Accucast

Date: 7/2/2014

Sample I.D.: TMW-7

Sample Source: TMW-7

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/N)  
Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 12:05 End Purge 12:30

Water Volume in Casing (gallons) 0.48 Volume purged (gallons) 2.5

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)  
Stick up \_\_\_\_\_ (inches)  
Water Level 13.27 (feet)  
Total Depth 25.00 (feet)  
Height of Water Col. 11.73 (feet)

|      |      |      |      |  |            |
|------|------|------|------|--|------------|
| pH   | 7.26 | 7.19 | 7.17 |  | (std.)     |
| SC   | 770  | 790  | 760  |  | (umhos.cm) |
| Temp | 24.2 | 23.8 | 21.9 |  | ©          |

Note:

**WELL RECHARGE**

(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014

Sampling Time: 12:30

Sample Appearance and Odor: slight gray turbidity, no odor.

Weather Conditions: partly cloudy

Sample Containers: 7

Comments: \_\_\_\_\_

Sampler Name (Print): Alex Huang

Signature: 

**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00  
Facility: Former Sibley/Accucast Foundry  
Address: 220 W. Eckman Street  
Project Name: Sibley-Accucast  
Date: 7/2/2014

Sample I.D.: TMN-8 Sample Source: TMN-8

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/)  
Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 14:28 End Purge 14:50

Water Volume in Casing (gallons) 0.45 Volume purged (gallons) 1.5

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)  
Stick up \_\_\_\_\_ (inches)  
Water Level 14.18 (feet)  
Total Depth 25.25 (feet)  
Height of Water Col. 11.07 (feet)

|      |             |             |             |  |            |
|------|-------------|-------------|-------------|--|------------|
| pH   | <u>7.34</u> | <u>7.27</u> | <u>7.24</u> |  | (std.)     |
| SC   | <u>810</u>  | <u>900</u>  | <u>910</u>  |  | (umhos.cm) |
| Temp | <u>23.0</u> | <u>22.1</u> | <u>21.4</u> |  | ©          |

Note:

**WELL RECHARGE**

(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014  
Sampling Time: 14:50  
Sample Appearance and Odor: 1.5M tanish-gray turbidity, no odor  
Weather Conditions: Mostly cloudy  
Sample Containers: 7  
Comments: \_\_\_\_\_

Sampler Name (Print): Alex Huang

Signature: 

**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00

Facility: Former Sibley/Accucast Foundry

Address: 220 W. Eckman Street

Project Name: Sibley-Accucast

Date: 7/2/2014

Sample I.D.: TAMW-9

Sample Source: TAMW-9

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/N)  
Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 10:40 End Purge 11:05

Water Volume in Casing (gallons) 0.47 Volume purged (gallons) 1.5

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)

Stick up \_\_\_\_\_ (inches)

Water Level 13.37 (feet)

Total Depth 24.75 (feet)

Height of Water Col. 11.38 (feet)

|      |             |             |             |  |            |
|------|-------------|-------------|-------------|--|------------|
| pH   | <u>7.42</u> | <u>7.30</u> | <u>7.33</u> |  | (std.)     |
| SC   | <u>710</u>  | <u>710</u>  | <u>670</u>  |  | (umhos.cm) |
| Temp | <u>24.1</u> | <u>22.8</u> | <u>21.0</u> |  | °C         |

Note:

**WELL RECHARGE**

(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014

Sampling Time: 11:05

Sample Appearance and Odor: moderate tanish turbid:ty. no odor

Weather Conditions: partly cloudy

Sample Containers: 7 x 3 (MS/MSD to be in here)

Comments: \_\_\_\_\_

Sampler Name (Print): Alex Huang

Signature: Alex Huang

**WEAVER BOOS  
CONSULTANTS, LLC**  
7121 Grape Road | Granger, IN 46530  
**FIELD SURVEY REPORT  
WATER SAMPLING**

File No.: 2339-356-03-00

Facility: Former Sibley/Accucast Foundry

Address: 220 W. Eckman Street

Project Name: Sibley-Accucast

Date: 7/2/2014

Sample I.D.: TMW-10

Sample Source: TMW-10

Type of Sample:  Groundwater  Surface Water  Leachate  Other: \_\_\_\_\_

Equipment Used: Purging QED SamplePro 1" Bladder Pump Dedicated (Y/N)  
Sampling QED SamplePro 1" Bladder Pump/Peristaltic Pump Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date 7/2/2014 Start Purge 9:55 End Purge 10:20

Water Volume in Casing (gallons) 0.36 Volume purged (gallons) 2

1-inch well has 0.041 gallons/foot

**MEASUREMENTS**

Well Diameter 1.0 (inches)  
Stick up \_\_\_\_\_ (inches)  
Water Level 16.47 (feet)  
Total Depth 25.27 (feet)  
Height of Water Col. 8.8 (feet)

|      |             |             |             |            |
|------|-------------|-------------|-------------|------------|
| pH   | <u>7.37</u> | <u>7.25</u> | <u>7.24</u> | (std.)     |
| SC   | <u>670</u>  | <u>690</u>  | <u>720</u>  | (umhos.cm) |
| Temp | <u>21.3</u> | <u>18.9</u> | <u>12.7</u> | ©          |

Note:

**WELL RECHARGE**

(circle one)

Very Poor Poor Fair Moderate Good  Very Good

**SAMPLE INFORMATION**

Sampling Date: 7/2/2014

Sampling Time: 10:20

Sample Appearance and Odor: Translucent - grayish turbidity, no odor

Weather Conditions: partly cloudy

Sample Containers: 7

Comments: \_\_\_\_\_

Sampler Name (Print): Alex Huang

Signature: Alex Huang

# **APPENDIX E**

Survey Control Data

6/12/14 Peninations due to site conditions

|                      |             |   |           |
|----------------------|-------------|---|-----------|
| - TMW-7              | - 3,179,686 | E | 2,330,897 |
| alove in debris pile |             |   |           |
| - TMW-6              | - 3,179,632 | E | 2,331,202 |
| North of brick pile  |             |   |           |

6/10/14 Sibley / Accurate

| Probe # | Well location | Easting   | Northing  |
|---------|---------------|-----------|-----------|
| P-1     |               | 3,179,559 | 2,331,646 |
| P-2     |               | 3,179,662 | 2,331,492 |
| P-3     |               | 3,179,823 | 2,331,489 |
| P-4     |               | 3,179,796 | 2,331,524 |
| P-5     |               | 3,179,652 | 2,331,227 |
| P-6     |               | 3,179,511 | 2,331,150 |
| P-7     |               | 3,179,759 | 2,331,156 |
| P-8     |               | 3,179,725 | 2,331,003 |
| P-9     |               | 3,179,576 | 2,331,036 |
| P-10    |               | 3,179,560 | 2,330,774 |
| TMW-1   |               | 3,179,524 | 2,331,595 |
| TMW-2   |               | 3,179,712 | 2,331,609 |
| TMW-3   |               | 3,179,841 | 2,331,632 |
| TMW-4   |               | 3,179,694 | 2,331,334 |
| TMW-5   |               | 3,179,566 | 2,331,342 |
| TMW-6   |               | 3,179,636 | 2,331,133 |
| TMW-7   |               | 3,179,677 | 2,330,831 |
| TMW-8   |               | 3,179,515 | 2,331,426 |
| TMW-9   |               | 3,179,514 | 2,330,937 |
| TMW-10  |               | 3,179,563 | 2,330,693 |

Indiana West (1302), US Survey Feet



6/30/14 Sidney Arc coast well measurements

| Well   | DTN   | TWD   | height of column | height of well | stick<br>cap |
|--------|-------|-------|------------------|----------------|--------------|
| TMW-1  | 13.22 | 25.12 | 11.9             | 0.49           | 1.88         |
| TMW-2  | 14.10 | 25.05 | 10.95            | 0.45           | 1.73         |
| TMW-3  | 14.63 | 24.44 | 9.8              | 0.70           | 1.08         |
| TMW-4  | 14.00 | 24.96 | 10.96            | 0.45           | 1.30         |
| TMW-5  | 13.90 | 24.85 | 10.95            | 0.45           | 1.40         |
| TMW-6  | 13.07 | 24.71 | 11.64            | 0.48           | 1.39         |
| TMW-7  | 13.27 | 25.00 | 11.73            | 0.48           | 1.38         |
| TMW-8  | 14.18 | 25.25 | 11.07            | 0.47           | 1.79         |
| TMW-9  | 13.37 | 24.75 | 11.38            | 0.47           | 1.48         |
| TMW-10 | 16.47 | 25.27 | 8.8              | 0.26           | 1.96         |

All measurements were taken within 1 hour, well was developed afterward.

Start mileage: 1743  
End mileage: 1773

Well development (same day):  
 TMW-3: ~ 2 gal.  
 TMW-2: 1.5 gal  
 TMW-1: 3 gal  
 TMW-8: 2 gal  
 TMW-7: 2 gal  
 TMW-6: 3.55 gal  
 TMW-4: 1.8 gal  
 TMW-5: 2.0 gal  
 TMW-10: 1.5 gal  
 TMW-9: 4 gal

6/17 Sibley pre-labelling  
 because of a complex sampling  
 regimen! Project name: Sibley-Accusort

- Subsurface soil Eg-blank:  
 Soil EQ Blank

of 28 Able dispersal  
 stor m with samp

~~10~~ PW 32  
 5 amp @ 12:38  
 pH: 9.04 temp: 25.0

DW 20 Samp @ 12:42  
 pH: 7.33 temp: 26.2

Dal 1 Samp @ 12:50  
 pH 9.17 Temp 27

7/3/19 Sibley - Accusort well survey

| Loc       | BS    | TT     | FJ    | EL     | Notes |
|-----------|-------|--------|-------|--------|-------|
| Gatehouse | 14.61 | 770.97 |       | 756.36 | BM    |
| TMW-1     |       |        | 14.15 | 756.82 |       |
| TMW-2     |       |        | 13.77 | 757.20 |       |
| TMW-3     |       |        | 13.92 | 758.99 |       |
| TMW-4     |       |        | 12.21 | 758.76 |       |
| TMW-5     |       |        | 12.21 | 758.76 |       |
| TMW-6     |       |        | 12.45 | 758.52 |       |
| TMW-7     |       |        | 10.97 | 760.00 |       |
| TMW-8     |       |        | 12.29 | 758.68 |       |
| TMW-9     |       |        | 11.10 | 759.87 |       |
| TMW-0     |       |        | 6.93  | 764.08 |       |

- Gatehouse Manhole elevation was  
 measured at the north edge of the  
 rim on Green Tech Transfer station,  
 which adjoins Sibley - Accusort to  
 the west.

- All TMW elevations were measured  
 at the wellhead, on the north rim.

# **APPENDIX F**

Laboratory Analytical Reports

July 07, 2014

Mr. Steve Stanford  
Weaver Boos & Gordon  
7121 Grape Road  
Granger, IN 46530

RE: Project: Sibley - Accucast  
Pace Project No.: 5099627

Dear Mr. Stanford:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lyle Cable  
lyle.cable@pacelabs.com  
Project Manager

Enclosures

cc: Mr. Alex Huang, Weaver Boos



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Sibley - Accucast

Pace Project No.: 5099627

---

### Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas Certification #: E-10247

Kentucky UST Certification #: 0042

Louisiana/NELAP Certification #: 04076

Ohio VAP Certification #: CL-0065

West Virginia Certification #: 330

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Sibley - Accucast

Pace Project No.: 5099627

| Lab ID     | Sample ID     | Matrix | Date Collected | Date Received  |
|------------|---------------|--------|----------------|----------------|
| 5099627001 | P-8 (6-8)     | Solid  | 06/19/14 12:35 | 06/20/14 10:42 |
| 5099627002 | TMW-7 (8-10)  | Solid  | 06/19/14 13:25 | 06/20/14 10:42 |
| 5099627003 | P-8 (16-18)   | Solid  | 06/19/14 12:45 | 06/20/14 10:42 |
| 5099627004 | P-4 (16-18)   | Solid  | 06/19/14 11:03 | 06/20/14 10:42 |
| 5099627005 | TMW-9 (3-5)   | Solid  | 06/19/14 14:12 | 06/20/14 10:42 |
| 5099627006 | TMW-3 (15-16) | Solid  | 06/19/14 09:15 | 06/20/14 10:42 |
| 5099627007 | TMW-9 (16-18) | Solid  | 06/19/14 14:27 | 06/20/14 10:42 |
| 5099627008 | P-7 (13-15)   | Solid  | 06/19/14 12:01 | 06/20/14 10:42 |
| 5099627009 | P-3 (16-18)   | Solid  | 06/19/14 10:20 | 06/20/14 10:42 |
| 5099627010 | TMW-7 (14-16) | Solid  | 06/19/14 13:45 | 06/20/14 10:42 |
| 5099627011 | P-4 (5-7)     | Solid  | 06/19/14 10:56 | 06/20/14 10:42 |
| 5099627012 | P-7 (5-7)     | Solid  | 06/19/14 11:50 | 06/20/14 10:42 |
| 5099627013 | P-7 (5-7)     | Solid  | 06/19/14 11:50 | 06/20/14 10:42 |
| 5099627014 | TMW-3 (8-9)   | Solid  | 06/19/14 09:00 | 06/20/14 10:42 |
| 5099627015 | P-9 (2-4)     | Solid  | 06/19/14 15:00 | 06/20/14 10:42 |
| 5099627016 | P-3 (8-10)    | Solid  | 06/19/14 09:55 | 06/20/14 10:42 |
| 5099627017 | P-9 (13-15)   | Solid  | 06/19/14 15:10 | 06/20/14 10:42 |
| 5099627018 | Surf-Dupe     | Solid  | 06/19/14 08:00 | 06/20/14 10:42 |
| 5099627019 | Trip Blank    | Solid  | 06/19/14 08:00 | 06/20/14 10:42 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Sibley - Accucast

Pace Project No.: 5099627

| Lab ID     | Sample ID     | Method        | Analysts | Analytes Reported |
|------------|---------------|---------------|----------|-------------------|
| 5099627001 | P-8 (6-8)     | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
| 5099627002 | TMW-7 (8-10)  | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
| 5099627003 | P-8 (16-18)   | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
| 5099627004 | P-4 (16-18)   | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
| 5099627005 | TMW-9 (3-5)   | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
| 5099627006 | TMW-3 (15-16) | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
| 5099627007 | TMW-9 (16-18) | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
| 5099627008 | P-7 (13-15)   | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |

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### SAMPLE ANALYTE COUNT

Project: Sibley - Accucast

Pace Project No.: 5099627

| Lab ID     | Sample ID     | Method        | Analysts | Analytes Reported |
|------------|---------------|---------------|----------|-------------------|
| 5099627009 | P-3 (16-18)   | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
| 5099627010 | TMW-7 (14-16) | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
| 5099627011 | P-4 (5-7)     | ASTM D2974-87 | SLB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
| 5099627012 | P-7 (5-7)     | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
| 5099627014 | TMW-3 (8-9)   | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
| 5099627015 | P-9 (2-4)     | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
| 5099627016 | P-3 (8-10)    | EPA 8260      | GRM      | 73                |
|            |               | ASTM D2974-87 | SLB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | GRM      | 73                |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Sibley - Accucast

Pace Project No.: 5099627

| Lab ID     | Sample ID   | Method        | Analysts | Analytes Reported |
|------------|-------------|---------------|----------|-------------------|
| 5099627017 | P-9 (13-15) | ASTM D2974-87 | SLB      | 1                 |
|            |             | EPA 8082      | DMT      | 8                 |
|            |             | EPA 6010      | FRW      | 8                 |
|            |             | EPA 8270      | SN       | 66                |
|            |             | EPA 8260      | GRM      | 73                |
| 5099627018 | Surf-Dupe   | ASTM D2974-87 | SLB      | 1                 |
|            |             | EPA 8082      | DMT      | 8                 |
|            |             | EPA 6010      | FRW      | 8                 |
|            |             | EPA 8270      | SN       | 66                |
|            |             | EPA 8260      | GRM      | 73                |
| 5099627019 | Trip Blank  | ASTM D2974-87 | SLB      | 1                 |
|            |             | EPA 8260      | GRM      | 73                |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-8 (6-8)**      **Lab ID: 5099627001**      Collected: 06/19/14 12:35      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 111          | 1  | 06/24/14 11:04 | 06/27/14 01:24 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 111          | 1  | 06/24/14 11:04 | 06/27/14 01:24 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 111          | 1  | 06/24/14 11:04 | 06/27/14 01:24 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 111          | 1  | 06/24/14 11:04 | 06/27/14 01:24 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 111          | 1  | 06/24/14 11:04 | 06/27/14 01:24 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 111          | 1  | 06/24/14 11:04 | 06/27/14 01:24 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 111          | 1  | 06/24/14 11:04 | 06/27/14 01:24 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 77 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 01:24 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 0.98         | 1  | 06/21/14 10:44 | 06/24/14 09:31 | 7440-36-0  |      |
| Arsenic   | 2.9     | mg/kg | 0.98         | 1  | 06/21/14 10:44 | 06/24/14 09:31 | 7440-38-2  |      |
| Chromium  | 10.1    | mg/kg | 0.98         | 1  | 06/21/14 10:44 | 06/24/14 09:31 | 7440-47-3  |      |
| Cobalt  | 2.6     | mg/kg | 0.98         | 1  | 06/21/14 10:44 | 06/24/14 09:31 | 7440-48-4  |      |
| Iron  | 10900   | mg/kg | 49.2         | 1  | 06/21/14 10:44 | 06/24/14 09:31 | 7439-89-6  |      |
| Lead  | 10.7    | mg/kg | 0.98         | 1  | 06/21/14 10:44 | 06/24/14 09:31 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 0.98         | 1  | 06/21/14 10:44 | 06/24/14 09:31 | 7782-49-2  |      |
| Thallium  | 2.2     | mg/kg | 0.98         | 1  | 06/21/14 10:44 | 06/24/14 09:31 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 187          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 728          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 728          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 728          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 187          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 728          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-8 (6-8)**      **Lab ID: 5099627001**      Collected: 06/19/14 12:35      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1760         | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1760         | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 728          | 1  | 06/23/14 12:26 | 06/23/14 22:32 |           |      |
| Naphthalene                  | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1760         | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1760         | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1760         | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1760         | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1760         | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 364          | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 75 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 70 %.   |   | 31-94        | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 87 %.   |   | 26-110       | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 1718-51-0 |      |
| Phenol-d5 (S)                | 79 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 76 %.   |   | 24-104       | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 87 %.   |   | 16-122       | 1  | 06/23/14 12:26 | 06/23/14 22:32 | 118-79-6  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-8 (6-8)**      **Lab ID: 5099627001**      Collected: 06/19/14 12:35      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 116          | 1  |          | 07/02/14 07:12 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 116          | 1  |          | 07/02/14 07:12 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 116          | 1  |          | 07/02/14 07:12 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 29.1         | 1  |          | 07/02/14 07:12 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 11.6         | 1  |          | 07/02/14 07:12 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 116          | 1  |          | 07/02/14 07:12 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 116          | 1  |          | 07/02/14 07:12 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.8          | 1  |          | 07/02/14 07:12 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 116          | 1  |          | 07/02/14 07:12 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 116          | 1  |          | 07/02/14 07:12 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-8 (6-8)**      **Lab ID: 5099627001**      Collected: 06/19/14 12:35      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 98-82-8   |      |
| p-Isopropyltoluene          | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 99-87-6   |      |
| Methylene Chloride          | ND           | ug/kg                            | 23.3         | 1  |          | 07/02/14 07:12 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 29.1         | 1  |          | 07/02/14 07:12 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 116          | 1  |          | 07/02/14 07:12 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 5.8          | 1  |          | 07/02/14 07:12 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 11.6         | 1  |          | 07/02/14 07:12 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 93 %         |                                  | 85-118       | 1  |          | 07/02/14 07:12 | 1868-53-7 |      |
| Toluene-d8 (S)              | 97 %         |                                  | 71-128       | 1  |          | 07/02/14 07:12 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 95 %         |                                  | 56-144       | 1  |          | 07/02/14 07:12 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>9.9 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:26 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-7 (8-10)**      **Lab ID: 5099627002**      Collected: 06/19/14 13:25      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:30 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:30 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:30 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:30 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:30 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:30 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:30 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 83 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 01:30 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:41 | 7440-36-0  |      |
| Arsenic   | 1.5     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:41 | 7440-38-2  |      |
| Chromium  | 2.0     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:41 | 7440-47-3  |      |
| Cobalt  | 1.4     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:41 | 7440-48-4  |      |
| Iron  | 2770    | mg/kg | 54.0         | 1  | 06/21/14 10:44 | 06/24/14 09:41 | 7439-89-6  |      |
| Lead  | 1.9     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:41 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:41 | 7782-49-2  |      |
| Thallium  | 1.4     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:41 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 201          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 779          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 779          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 779          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 201          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 779          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 120-83-2   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-7 (8-10)**      **Lab ID: 5099627002**      Collected: 06/19/14 13:25      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 779          | 1  | 06/23/14 12:26 | 06/23/14 22:55 |           |      |
| Naphthalene                  | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 65 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 70 %.   |   | 31-94        | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 88 %.   |   | 26-110       | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 1718-51-0 |      |
| Phenol-d5 (S)                | 71 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 69 %.   |   | 24-104       | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 74 %.   |   | 16-122       | 1  | 06/23/14 12:26 | 06/23/14 22:55 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-7 (8-10)**      **Lab ID: 5099627002**      Collected: 06/19/14 13:25      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | 169     | ug/kg                       | 109          | 1  |          | 07/02/14 07:46 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 07:46 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 07:46 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 27.2         | 1  |          | 07/02/14 07:46 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.9         | 1  |          | 07/02/14 07:46 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 07:46 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 07:46 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.4          | 1  |          | 07/02/14 07:46 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 07:46 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 07:46 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 5099627

**Sample: TMW-7 (8-10)**      **Lab ID: 5099627002**      Collected: 06/19/14 13:25      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 21.8         | 1  |          | 07/02/14 07:46 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 27.2         | 1  |          | 07/02/14 07:46 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 109          | 1  |          | 07/02/14 07:46 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.4          | 1  |          | 07/02/14 07:46 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 10.9         | 1  |          | 07/02/14 07:46 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 94 %          |                                  | 85-118       | 1  |          | 07/02/14 07:46 | 1868-53-7 |      |
| Toluene-d8 (S)              | 99 %          |                                  | 71-128       | 1  |          | 07/02/14 07:46 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 97 %          |                                  | 56-144       | 1  |          | 07/02/14 07:46 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>15.5 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:26 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-8 (16-18)**      **Lab ID: 5099627003**      Collected: 06/19/14 12:45      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:35 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:35 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:35 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:35 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:35 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:35 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 118          | 1  | 06/24/14 11:04 | 06/27/14 01:35 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 87 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 01:35 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:44 | 7440-36-0  |      |
| Arsenic   | 2.4     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:44 | 7440-38-2  |      |
| Chromium  | 3.6     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:44 | 7440-47-3  |      |
| Cobalt  | 1.7     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:44 | 7440-48-4  |      |
| Iron  | 4070    | mg/kg | 56.1         | 1  | 06/21/14 10:44 | 06/24/14 09:44 | 7439-89-6  |      |
| Lead  | 2.2     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:44 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:44 | 7782-49-2  |      |
| Thallium  | 1.8     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:44 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 200          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 778          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 778          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 778          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 200          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 778          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-8 (16-18)**      **Lab ID: 5099627003**      Collected: 06/19/14 12:45      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 778          | 1  | 06/23/14 12:26 | 06/23/14 23:18 |           |      |
| Naphthalene                  | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 70 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 73 %.   |   | 31-94        | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 96 %.   |   | 26-110       | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 1718-51-0 |      |
| Phenol-d5 (S)                | 75 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 73 %.   |   | 24-104       | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 81 %.   |   | 16-122       | 1  | 06/23/14 12:26 | 06/23/14 23:18 | 118-79-6  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-8 (16-18)**      **Lab ID: 5099627003**      Collected: 06/19/14 12:45      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 98.1         | 1  |          | 07/02/14 08:20 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 98.1         | 1  |          | 07/02/14 08:20 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 98.1         | 1  |          | 07/02/14 08:20 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.5         | 1  |          | 07/02/14 08:20 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.8          | 1  |          | 07/02/14 08:20 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 98.1         | 1  |          | 07/02/14 08:20 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 98.1         | 1  |          | 07/02/14 08:20 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 08:20 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 98.1         | 1  |          | 07/02/14 08:20 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 98.1         | 1  |          | 07/02/14 08:20 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-8 (16-18)**      **Lab ID: 5099627003**      Collected: 06/19/14 12:45      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 19.6         | 1  |          | 07/02/14 08:20 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 24.5         | 1  |          | 07/02/14 08:20 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 98.1         | 1  |          | 07/02/14 08:20 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 08:20 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 9.8          | 1  |          | 07/02/14 08:20 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 91 %          |                                  | 85-118       | 1  |          | 07/02/14 08:20 | 1868-53-7 |      |
| Toluene-d8 (S)              | 98 %          |                                  | 71-128       | 1  |          | 07/02/14 08:20 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 93 %          |                                  | 56-144       | 1  |          | 07/02/14 08:20 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>16.0 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:26 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-4 (16-18)**      **Lab ID: 5099627004**      Collected: 06/19/14 11:03      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 01:53 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 01:53 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 01:53 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 01:53 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 01:53 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 01:53 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 01:53 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 82 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 01:53 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.2          | 1  | 06/21/14 10:44 | 06/24/14 09:46 | 7440-36-0  |      |
| Arsenic   | 1.7     | mg/kg | 1.2          | 1  | 06/21/14 10:44 | 06/24/14 09:46 | 7440-38-2  |      |
| Chromium  | 2.9     | mg/kg | 1.2          | 1  | 06/21/14 10:44 | 06/24/14 09:46 | 7440-47-3  |      |
| Cobalt  | 1.3     | mg/kg | 1.2          | 1  | 06/21/14 10:44 | 06/24/14 09:46 | 7440-48-4  |      |
| Iron  | 3620    | mg/kg | 58.9         | 1  | 06/21/14 10:44 | 06/24/14 09:46 | 7439-89-6  |      |
| Lead  | 1.4     | mg/kg | 1.2          | 1  | 06/21/14 10:44 | 06/24/14 09:46 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.2          | 1  | 06/21/14 10:44 | 06/24/14 09:46 | 7782-49-2  |      |
| Thallium  | 1.8     | mg/kg | 1.2          | 1  | 06/21/14 10:44 | 06/24/14 09:46 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 202          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 783          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 783          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 783          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 202          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 783          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-4 (16-18)**      **Lab ID: 5099627004**      Collected: 06/19/14 11:03      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 783          | 1  | 06/23/14 12:26 | 06/23/14 23:41 |           |      |
| Naphthalene                  | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 392          | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 60 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 65 %.   |   | 31-94        | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 84 %.   |   | 26-110       | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 1718-51-0 |      |
| Phenol-d5 (S)                | 64 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 62 %.   |   | 24-104       | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 68 %.   |   | 16-122       | 1  | 06/23/14 12:26 | 06/23/14 23:41 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-4 (16-18)**      **Lab ID: 5099627004**      Collected: 06/19/14 11:03      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 95.2         | 1  |          | 07/02/14 08:54 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 95.2         | 1  |          | 07/02/14 08:54 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 95.2         | 1  |          | 07/02/14 08:54 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 23.8         | 1  |          | 07/02/14 08:54 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.5          | 1  |          | 07/02/14 08:54 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 95.2         | 1  |          | 07/02/14 08:54 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 95.2         | 1  |          | 07/02/14 08:54 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 08:54 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 95.2         | 1  |          | 07/02/14 08:54 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 95.2         | 1  |          | 07/02/14 08:54 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-4 (16-18)**      **Lab ID: 5099627004**      Collected: 06/19/14 11:03      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 19.0         | 1  |          | 07/02/14 08:54 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 23.8         | 1  |          | 07/02/14 08:54 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 95.2         | 1  |          | 07/02/14 08:54 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 08:54 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 9.5          | 1  |          | 07/02/14 08:54 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 95 %          |                                  | 85-118       | 1  |          | 07/02/14 08:54 | 1868-53-7 |      |
| Toluene-d8 (S)              | 98 %          |                                  | 71-128       | 1  |          | 07/02/14 08:54 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 93 %          |                                  | 56-144       | 1  |          | 07/02/14 08:54 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>16.0 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:26 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-9 (3-5)**      **Lab ID: 5099627005**      Collected: 06/19/14 14:12      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|--|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg  | 120          | 1  | 06/24/14 11:04 | 06/27/14 01:59 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg  | 120          | 1  | 06/24/14 11:04 | 06/27/14 01:59 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg  | 120          | 1  | 06/24/14 11:04 | 06/27/14 01:59 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg  | 120          | 1  | 06/24/14 11:04 | 06/27/14 01:59 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg  | 120          | 1  | 06/24/14 11:04 | 06/27/14 01:59 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg  | 120          | 1  | 06/24/14 11:04 | 06/27/14 01:59 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg  | 120          | 1  | 06/24/14 11:04 | 06/27/14 01:59 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |  |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 85 %.   |  | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 01:59 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010 Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:48 | 7440-36-0  |      |
| Arsenic                               | 2.3     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:48 | 7440-38-2  |      |
| Chromium                              | 2.8     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:48 | 7440-47-3  |      |
| Cobalt                                | 1.6     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:48 | 7440-48-4  |      |
| Iron                                  | 4000    | mg/kg  | 52.2         | 1  | 06/21/14 10:44 | 06/24/14 09:48 | 7439-89-6  |      |
| Lead                                  | 4.4     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:48 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:48 | 7782-49-2  |      |
| Thallium                              | 1.7     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:48 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg  | 202          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg  | 785          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg  | 785          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg  | 785          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg  | 202          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg  | 785          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg  | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-9 (3-5)**      **Lab ID: 5099627005**      Collected: 06/19/14 14:12      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 785          | 1  | 06/23/14 12:26 | 06/24/14 00:04 |           |      |
| Naphthalene                  | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 73 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 76 %.   |   | 31-94        | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 95 %.   |   | 26-110       | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 1718-51-0 |      |
| Phenol-d5 (S)                | 77 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 75 %.   |   | 24-104       | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 80 %.   |   | 16-122       | 1  | 06/23/14 12:26 | 06/24/14 00:04 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-9 (3-5)**      **Lab ID: 5099627005**      Collected: 06/19/14 14:12      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 98.9         | 1  |          | 07/02/14 15:48 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 98.9         | 1  |          | 07/02/14 15:48 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 98.9         | 1  |          | 07/02/14 15:48 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.7         | 1  |          | 07/02/14 15:48 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.9          | 1  |          | 07/02/14 15:48 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 98.9         | 1  |          | 07/02/14 15:48 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 98.9         | 1  |          | 07/02/14 15:48 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 15:48 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 98.9         | 1  |          | 07/02/14 15:48 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 98.9         | 1  |          | 07/02/14 15:48 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-9 (3-5)**      **Lab ID: 5099627005**      Collected: 06/19/14 14:12      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 19.8         | 1  |          | 07/02/14 15:48 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 24.7         | 1  |          | 07/02/14 15:48 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 98.9         | 1  |          | 07/02/14 15:48 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 15:48 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 9.9          | 1  |          | 07/02/14 15:48 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 98 %          |                                  | 85-118       | 1  |          | 07/02/14 15:48 | 1868-53-7 |      |
| Toluene-d8 (S)              | 99 %          |                                  | 71-128       | 1  |          | 07/02/14 15:48 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 94 %          |                                  | 56-144       | 1  |          | 07/02/14 15:48 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>17.0 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:26 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-3 (15-16)**      **Lab ID: 5099627006**      Collected: 06/19/14 09:15      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|--|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg  | 117          | 1  | 06/24/14 11:04 | 06/27/14 02:04 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg  | 117          | 1  | 06/24/14 11:04 | 06/27/14 02:04 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg  | 117          | 1  | 06/24/14 11:04 | 06/27/14 02:04 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg  | 117          | 1  | 06/24/14 11:04 | 06/27/14 02:04 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg  | 117          | 1  | 06/24/14 11:04 | 06/27/14 02:04 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg  | 117          | 1  | 06/24/14 11:04 | 06/27/14 02:04 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg  | 117          | 1  | 06/24/14 11:04 | 06/27/14 02:04 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |  |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 74 %.   |  | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 02:04 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010 Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg  | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:56 | 7440-36-0  |      |
| Arsenic                               | 5.5     | mg/kg  | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:56 | 7440-38-2  |      |
| Chromium                              | 2.6     | mg/kg  | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:56 | 7440-47-3  |      |
| Cobalt                                | 1.6     | mg/kg  | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:56 | 7440-48-4  |      |
| Iron                                  | 5710    | mg/kg  | 55.9         | 1  | 06/21/14 10:44 | 06/24/14 09:56 | 7439-89-6  |      |
| Lead                                  | 6.4     | mg/kg  | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:56 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg  | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:56 | 7782-49-2  |      |
| Thallium                              | 1.9     | mg/kg  | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 09:56 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg  | 198          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg  | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg  | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg  | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg  | 198          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg  | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-3 (15-16)**      **Lab ID: 5099627006**      Collected: 06/19/14 09:15      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:27 |           |      |
| Naphthalene                  | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 70 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 74 %.   |   | 31-94        | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 101 %.  |   | 26-110       | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 1718-51-0 |      |
| Phenol-d5 (S)                | 76 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 73 %.   |   | 24-104       | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 82 %.   |   | 16-122       | 1  | 06/23/14 12:26 | 06/24/14 00:27 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-3 (15-16)**      **Lab ID: 5099627006**      Collected: 06/19/14 09:15      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 99.6         | 1  |          | 07/02/14 16:21 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 99.6         | 1  |          | 07/02/14 16:21 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 99.6         | 1  |          | 07/02/14 16:21 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.9         | 1  |          | 07/02/14 16:21 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10           | 1  |          | 07/02/14 16:21 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 99.6         | 1  |          | 07/02/14 16:21 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 99.6         | 1  |          | 07/02/14 16:21 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.0          | 1  |          | 07/02/14 16:21 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 99.6         | 1  |          | 07/02/14 16:21 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 99.6         | 1  |          | 07/02/14 16:21 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-3 (15-16)**      **Lab ID: 5099627006**      Collected: 06/19/14 09:15      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 19.9         | 1  |          | 07/02/14 16:21 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 24.9         | 1  |          | 07/02/14 16:21 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 99.6         | 1  |          | 07/02/14 16:21 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.0          | 1  |          | 07/02/14 16:21 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 10           | 1  |          | 07/02/14 16:21 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 95 %          |                                  | 85-118       | 1  |          | 07/02/14 16:21 | 1868-53-7 |      |
| Toluene-d8 (S)              | 100 %         |                                  | 71-128       | 1  |          | 07/02/14 16:21 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 94 %          |                                  | 56-144       | 1  |          | 07/02/14 16:21 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>14.3 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:27 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-9 (16-18)**      **Lab ID: 5099627007**      Collected: 06/19/14 14:27      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|--|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg  | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:10 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg  | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:10 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg  | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:10 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg  | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:10 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg  | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:10 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg  | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:10 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg  | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:10 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |  |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 88 %.   |  | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 02:10 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010 Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:58 | 7440-36-0  |      |
| Arsenic                               | 1.5     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:58 | 7440-38-2  |      |
| Chromium                              | 3.0     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:58 | 7440-47-3  |      |
| Cobalt                                | 1.3     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:58 | 7440-48-4  |      |
| Iron                                  | 3000    | mg/kg  | 51.0         | 1  | 06/21/14 10:44 | 06/24/14 09:58 | 7439-89-6  |      |
| Lead                                  | 1.7     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:58 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:58 | 7782-49-2  |      |
| Thallium                              | 1.5     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 09:58 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg  | 198          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg  | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg  | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg  | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg  | 198          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg  | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg  | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-9 (16-18)**      **Lab ID: 5099627007**      Collected: 06/19/14 14:27      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 768          | 1  | 06/23/14 12:26 | 06/24/14 00:50 |           |      |
| Naphthalene                  | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1860         | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 384          | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 71 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 74 %.   |   | 31-94        | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 95 %.   |   | 26-110       | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 1718-51-0 |      |
| Phenol-d5 (S)                | 77 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 74 %.   |   | 24-104       | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 82 %.   |   | 16-122       | 1  | 06/23/14 12:26 | 06/24/14 00:50 | 118-79-6  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-9 (16-18)**      **Lab ID: 5099627007**      Collected: 06/19/14 14:27      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 95.3         | 1  |          | 07/02/14 16:55 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 95.3         | 1  |          | 07/02/14 16:55 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 95.3         | 1  |          | 07/02/14 16:55 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 23.8         | 1  |          | 07/02/14 16:55 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.5          | 1  |          | 07/02/14 16:55 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 95.3         | 1  |          | 07/02/14 16:55 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 95.3         | 1  |          | 07/02/14 16:55 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 16:55 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 95.3         | 1  |          | 07/02/14 16:55 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 95.3         | 1  |          | 07/02/14 16:55 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-9 (16-18)**      **Lab ID: 5099627007**      Collected: 06/19/14 14:27      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 19.1         | 1  |          | 07/02/14 16:55 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 23.8         | 1  |          | 07/02/14 16:55 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 95.3         | 1  |          | 07/02/14 16:55 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 4.8          | 1  |          | 07/02/14 16:55 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 9.5          | 1  |          | 07/02/14 16:55 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 91 %          |                                  | 85-118       | 1  |          | 07/02/14 16:55 | 1868-53-7 |      |
| Toluene-d8 (S)              | 99 %          |                                  | 71-128       | 1  |          | 07/02/14 16:55 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 91 %          |                                  | 56-144       | 1  |          | 07/02/14 16:55 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>14.6 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:43 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-7 (13-15)**      **Lab ID: 5099627008**      Collected: 06/19/14 12:01      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8082 GCS PCB**

Analytical Method: EPA 8082      Preparation Method: EPA 3546

|                         |          |  |     |   |                |                |            |  |
|-------------------------|----------|--|-----|---|----------------|----------------|------------|--|
| PCB-1016 (Aroclor 1016) | ND ug/kg |  | 118 | 1 | 06/24/14 11:04 | 06/27/14 02:16 | 12674-11-2 |  |
| PCB-1221 (Aroclor 1221) | ND ug/kg |  | 118 | 1 | 06/24/14 11:04 | 06/27/14 02:16 | 11104-28-2 |  |
| PCB-1232 (Aroclor 1232) | ND ug/kg |  | 118 | 1 | 06/24/14 11:04 | 06/27/14 02:16 | 11141-16-5 |  |
| PCB-1242 (Aroclor 1242) | ND ug/kg |  | 118 | 1 | 06/24/14 11:04 | 06/27/14 02:16 | 53469-21-9 |  |
| PCB-1248 (Aroclor 1248) | ND ug/kg |  | 118 | 1 | 06/24/14 11:04 | 06/27/14 02:16 | 12672-29-6 |  |
| PCB-1254 (Aroclor 1254) | ND ug/kg |  | 118 | 1 | 06/24/14 11:04 | 06/27/14 02:16 | 11097-69-1 |  |
| PCB-1260 (Aroclor 1260) | ND ug/kg |  | 118 | 1 | 06/24/14 11:04 | 06/27/14 02:16 | 11096-82-5 |  |

**Surrogates**

|                          |       |  |        |   |                |                |          |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 91 %. |  | 30-106 | 1 | 06/24/14 11:04 | 06/27/14 02:16 | 877-09-8 |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010      Preparation Method: EPA 3050

|          |            |  |      |   |                |                |           |  |
|----------|------------|--|------|---|----------------|----------------|-----------|--|
| Antimony | ND mg/kg   |  | 1.0  | 1 | 06/21/14 10:44 | 06/24/14 10:00 | 7440-36-0 |  |
| Arsenic  | 3.0 mg/kg  |  | 1.0  | 1 | 06/21/14 10:44 | 06/24/14 10:00 | 7440-38-2 |  |
| Chromium | 3.1 mg/kg  |  | 1.0  | 1 | 06/21/14 10:44 | 06/24/14 10:00 | 7440-47-3 |  |
| Cobalt   | 1.7 mg/kg  |  | 1.0  | 1 | 06/21/14 10:44 | 06/24/14 10:00 | 7440-48-4 |  |
| Iron     | 4750 mg/kg |  | 52.1 | 1 | 06/21/14 10:44 | 06/24/14 10:00 | 7439-89-6 |  |
| Lead     | 10.4 mg/kg |  | 1.0  | 1 | 06/21/14 10:44 | 06/24/14 10:00 | 7439-92-1 |  |
| Selenium | ND mg/kg   |  | 1.0  | 1 | 06/21/14 10:44 | 06/24/14 10:00 | 7782-49-2 |  |
| Thallium | 2.2 mg/kg  |  | 1.0  | 1 | 06/21/14 10:44 | 06/24/14 10:00 | 7440-28-0 |  |

**8270 MSSV SHORT LIST  
MICROWAVE**

Analytical Method: EPA 8270      Preparation Method: EPA 3546

|                                |          |  |     |   |                |                |           |  |
|--------------------------------|----------|--|-----|---|----------------|----------------|-----------|--|
| Acenaphthene                   | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 83-32-9   |  |
| Acenaphthylene                 | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 208-96-8  |  |
| Anthracene                     | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 120-12-7  |  |
| Benzo(a)anthracene             | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 56-55-3   |  |
| Benzo(a)pyrene                 | ND ug/kg |  | 200 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 50-32-8   |  |
| Benzo(b)fluoranthene           | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 205-99-2  |  |
| Benzo(g,h,i)perylene           | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 191-24-2  |  |
| Benzo(k)fluoranthene           | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 207-08-9  |  |
| Benzyl alcohol                 | ND ug/kg |  | 778 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 100-51-6  |  |
| 4-Bromophenylphenyl ether      | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 101-55-3  |  |
| Butylbenzylphthalate           | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 85-68-7   |  |
| 4-Chloro-3-methylphenol        | ND ug/kg |  | 778 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 59-50-7   |  |
| 4-Chloroaniline                | ND ug/kg |  | 778 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane     | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 111-91-1  |  |
| bis(2-Chloroethyl) ether       | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 111-44-4  |  |
| bis(2chloro1methylethyl) ether | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 108-60-1  |  |
| 2-Chloronaphthalene            | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 91-58-7   |  |
| 2-Chlorophenol                 | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether     | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 7005-72-3 |  |
| Chrysene                       | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 218-01-9  |  |
| Dibenz(a,h)anthracene          | ND ug/kg |  | 200 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 53-70-3   |  |
| Dibenzofuran                   | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine         | ND ug/kg |  | 778 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 91-94-1   |  |
| 2,4-Dichlorophenol             | ND ug/kg |  | 389 | 1 | 06/23/14 12:26 | 06/24/14 01:13 | 120-83-2  |  |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-7 (13-15)**      **Lab ID: 5099627008**      Collected: 06/19/14 12:01      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 778          | 1  | 06/23/14 12:26 | 06/24/14 01:13 |           |      |
| Naphthalene                  | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1890         | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 389          | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 74 %    |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 76 %    |   | 31-94        | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 98 %    |   | 26-110       | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 1718-51-0 |      |
| Phenol-d5 (S)                | 77 %    |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 75 %    |   | 24-104       | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 82 %    |   | 16-122       | 1  | 06/23/14 12:26 | 06/24/14 01:13 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-7 (13-15)**      **Lab ID: 5099627008**      Collected: 06/19/14 12:01      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 17:29 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 17:29 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 17:29 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 27.3         | 1  |          | 07/02/14 17:29 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.9         | 1  |          | 07/02/14 17:29 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 17:29 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 17:29 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.5          | 1  |          | 07/02/14 17:29 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 17:29 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 109          | 1  |          | 07/02/14 17:29 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-7 (13-15)**      **Lab ID: 5099627008**      Collected: 06/19/14 12:01      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 21.8         | 1  |          | 07/02/14 17:29 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 27.3         | 1  |          | 07/02/14 17:29 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 109          | 1  |          | 07/02/14 17:29 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.5          | 1  |          | 07/02/14 17:29 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 10.9         | 1  |          | 07/02/14 17:29 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 94 %          |                                  | 85-118       | 1  |          | 07/02/14 17:29 | 1868-53-7 |      |
| Toluene-d8 (S)              | 100 %         |                                  | 71-128       | 1  |          | 07/02/14 17:29 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 94 %          |                                  | 56-144       | 1  |          | 07/02/14 17:29 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>15.7 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:43 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-3 (16-18)**      **Lab ID: 5099627009**      Collected: 06/19/14 10:20      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 02:22 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 02:22 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 02:22 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 02:22 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 02:22 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 02:22 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 119          | 1  | 06/24/14 11:04 | 06/27/14 02:22 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 89 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 02:22 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:02 | 7440-36-0  |      |
| Arsenic   | 1.4     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:02 | 7440-38-2  |      |
| Chromium  | 2.1     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:02 | 7440-47-3  |      |
| Cobalt  | 1.2     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:02 | 7440-48-4  |      |
| Iron  | 2770    | mg/kg | 50.8         | 1  | 06/21/14 10:44 | 06/24/14 10:02 | 7439-89-6  |      |
| Lead  | 1.2     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:02 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:02 | 7782-49-2  |      |
| Thallium  | 1.6     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:02 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 202          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 786          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 786          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 786          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 202          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 786          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 120-83-2   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-3 (16-18)**      **Lab ID: 5099627009**      Collected: 06/19/14 10:20      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 786          | 1  | 06/23/14 12:26 | 06/24/14 01:36 |           |      |
| Naphthalene                  | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1900         | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 393          | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 55 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 59 %.   |   | 31-94        | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 72 %.   |   | 26-110       | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 1718-51-0 |      |
| Phenol-d5 (S)                | 59 %.   |   | 28-101       | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 58 %.   |   | 24-104       | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 61 %.   |   | 16-122       | 1  | 06/23/14 12:26 | 06/24/14 01:36 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-3 (16-18)**      **Lab ID: 5099627009**      Collected: 06/19/14 10:20      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 94.0         | 1  |          | 07/02/14 18:03 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 94.0         | 1  |          | 07/02/14 18:03 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 94.0         | 1  |          | 07/02/14 18:03 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 23.5         | 1  |          | 07/02/14 18:03 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.4          | 1  |          | 07/02/14 18:03 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 94.0         | 1  |          | 07/02/14 18:03 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 94.0         | 1  |          | 07/02/14 18:03 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 94.0         | 1  |          | 07/02/14 18:03 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 94.0         | 1  |          | 07/02/14 18:03 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-3 (16-18)**      **Lab ID: 5099627009**      Collected: 06/19/14 10:20      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 98-82-8   |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 99-87-6   |      |
| Methylene Chloride          | ND      | ug/kg                       | 18.8         | 1  |          | 07/02/14 18:03 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/kg                       | 23.5         | 1  |          | 07/02/14 18:03 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 103-65-1  |      |
| Styrene                     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 127-18-4  |      |
| Toluene                     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/kg                       | 94.0         | 1  |          | 07/02/14 18:03 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 18:03 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/kg                       | 9.4          | 1  |          | 07/02/14 18:03 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                             |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 98 %    |                             | 85-118       | 1  |          | 07/02/14 18:03 | 1868-53-7 |      |
| Toluene-d8 (S)              | 100 %   |                             | 71-128       | 1  |          | 07/02/14 18:03 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 94 %    |                             | 56-144       | 1  |          | 07/02/14 18:03 | 460-00-4  |      |

**Percent Moisture**

Analytical Method: ASTM D2974-87

|                  |               |  |      |   |  |                |  |  |
|------------------|---------------|--|------|---|--|----------------|--|--|
| Percent Moisture | <b>16.6 %</b> |  | 0.10 | 1 |  | 06/26/14 09:43 |  |  |
|------------------|---------------|--|------|---|--|----------------|--|--|

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-7 (14-16)**      **Lab ID: 5099627010**      Collected: 06/19/14 13:45      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:28 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:28 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:28 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:28 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:28 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:28 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:28 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 94 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 02:28 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:04 | 7440-36-0  |      |
| Arsenic   | 1.7     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:04 | 7440-38-2  |      |
| Chromium  | 3.4     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:04 | 7440-47-3  |      |
| Cobalt  | 1.7     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:04 | 7440-48-4  |      |
| Iron  | 3690    | mg/kg | 51.5         | 1  | 06/21/14 10:44 | 06/24/14 10:04 | 7439-89-6  |      |
| Lead  | 2.0     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:04 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:04 | 7782-49-2  |      |
| Thallium  | 2.0     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:04 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 197          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 764          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 764          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 764          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 197          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 764          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-7 (14-16)**      **Lab ID: 5099627010**      Collected: 06/19/14 13:45      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1850         | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1850         | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 764          | 1  | 06/24/14 14:24 | 06/25/14 13:42 |           |      |
| Naphthalene                  | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1850         | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1850         | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1850         | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1850         | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1850         | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 382          | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 70 %.   |   | 28-101       | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 72 %.   |   | 31-94        | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 85 %.   |   | 26-110       | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 1718-51-0 |      |
| Phenol-d5 (S)                | 70 %.   |   | 28-101       | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 70 %.   |   | 24-104       | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 72 %.   |   | 16-122       | 1  | 06/24/14 14:24 | 06/25/14 13:42 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-7 (14-16)**      **Lab ID: 5099627010**      Collected: 06/19/14 13:45      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 103          | 1  |          | 07/02/14 18:37 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 103          | 1  |          | 07/02/14 18:37 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 103          | 1  |          | 07/02/14 18:37 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 25.8         | 1  |          | 07/02/14 18:37 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.3         | 1  |          | 07/02/14 18:37 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 103          | 1  |          | 07/02/14 18:37 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 103          | 1  |          | 07/02/14 18:37 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.2          | 1  |          | 07/02/14 18:37 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 103          | 1  |          | 07/02/14 18:37 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 103          | 1  |          | 07/02/14 18:37 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-7 (14-16)**      **Lab ID: 5099627010**      Collected: 06/19/14 13:45      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 20.6         | 1  |          | 07/02/14 18:37 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 25.8         | 1  |          | 07/02/14 18:37 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 103          | 1  |          | 07/02/14 18:37 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.2          | 1  |          | 07/02/14 18:37 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 10.3         | 1  |          | 07/02/14 18:37 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 96 %          |                                  | 85-118       | 1  |          | 07/02/14 18:37 | 1868-53-7 |      |
| Toluene-d8 (S)              | 98 %          |                                  | 71-128       | 1  |          | 07/02/14 18:37 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 91 %          |                                  | 56-144       | 1  |          | 07/02/14 18:37 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>14.2 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:43 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 5099627

**Sample: P-4 (5-7)**      **Lab ID: 5099627011**      Collected: 06/19/14 10:56      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                  | ND      | ug/kg | 110          | 1  | 06/24/14 11:04 | 06/27/14 02:33 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                  | ND      | ug/kg | 110          | 1  | 06/24/14 11:04 | 06/27/14 02:33 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                  | ND      | ug/kg | 110          | 1  | 06/24/14 11:04 | 06/27/14 02:33 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                  | ND      | ug/kg | 110          | 1  | 06/24/14 11:04 | 06/27/14 02:33 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                  | ND      | ug/kg | 110          | 1  | 06/24/14 11:04 | 06/27/14 02:33 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                  | ND      | ug/kg | 110          | 1  | 06/24/14 11:04 | 06/27/14 02:33 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                  | ND      | ug/kg | 110          | 1  | 06/24/14 11:04 | 06/27/14 02:33 | 11096-82-5 |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                 | 73 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 02:33 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony   | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:06 | 7440-36-0  |      |
| Arsenic  | 4.0     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:06 | 7440-38-2  |      |
| Chromium   | 9.4     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:06 | 7440-47-3  |      |
| Cobalt   | 3.7     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:06 | 7440-48-4  |      |
| Iron   | 11500   | mg/kg | 51.5         | 1  | 06/21/14 10:44 | 06/24/14 10:06 | 7439-89-6  |      |
| Lead   | 11.8    | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:06 | 7439-92-1  |      |
| Selenium   | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:06 | 7782-49-2  |      |
| Thallium   | 4.7     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:06 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                    |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene   | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 83-32-9    |      |
| Acenaphthylene   | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 208-96-8   |      |
| Anthracene   | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 120-12-7   |      |
| Benzo(a)anthracene                                       | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 56-55-3    |      |
| Benzo(a)pyrene   | ND      | ug/kg | 187          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 50-32-8    |      |
| Benzo(b)fluoranthene                                     | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                     | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 191-24-2   |      |
| Benzo(k)fluoranthene                                     | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 207-08-9   |      |
| Benzyl alcohol   | ND      | ug/kg | 724          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 101-55-3   |      |
| Butylbenzylphthalate                                     | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                  | ND      | ug/kg | 724          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 59-50-7    |      |
| 4-Chloroaniline  | ND      | ug/kg | 724          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                               | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                 | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                           | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 108-60-1   |      |
| 2-Chloronaphthalene                                      | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 91-58-7    |      |
| 2-Chlorophenol   | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                               | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 7005-72-3  |      |
| Chrysene   | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                    | ND      | ug/kg | 187          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 53-70-3    |      |
| Dibenzofuran   | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                   | ND      | ug/kg | 724          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 91-94-1    |      |
| 2,4-Dichlorophenol                                       | ND      | ug/kg | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-4 (5-7)**      **Lab ID: 5099627011**      Collected: 06/19/14 10:56      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1760         | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1760         | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 724          | 1  | 06/24/14 14:24 | 06/25/14 14:04 |           |      |
| Naphthalene                  | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1760         | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1760         | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1760         | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1760         | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1760         | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 362          | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 67 %.   |   | 28-101       | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 64 %.   |   | 31-94        | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 80 %.   |   | 26-110       | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 1718-51-0 |      |
| Phenol-d5 (S)                | 70 %.   |   | 28-101       | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 68 %.   |   | 24-104       | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 68 %.   |   | 16-122       | 1  | 06/24/14 14:24 | 06/25/14 14:04 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-4 (5-7)**      **Lab ID: 5099627011**      Collected: 06/19/14 10:56      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 98.8         | 1  |          | 07/03/14 15:03 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 98.8         | 1  |          | 07/03/14 15:03 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 98.8         | 1  |          | 07/03/14 15:03 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.7         | 1  |          | 07/03/14 15:03 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.9          | 1  |          | 07/03/14 15:03 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 98.8         | 1  |          | 07/03/14 15:03 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 98.8         | 1  |          | 07/03/14 15:03 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 15:03 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 98.8         | 1  |          | 07/03/14 15:03 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 98.8         | 1  |          | 07/03/14 15:03 | 74-88-4    |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-4 (5-7)**      **Lab ID: 5099627011**      Collected: 06/19/14 10:56      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 98-82-8   |      |
| p-Isopropyltoluene          | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 99-87-6   |      |
| Methylene Chloride          | ND           | ug/kg                            | 19.8         | 1  |          | 07/03/14 15:03 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 24.7         | 1  |          | 07/03/14 15:03 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 98.8         | 1  |          | 07/03/14 15:03 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 15:03 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 9.9          | 1  |          | 07/03/14 15:03 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 95 %         |                                  | 85-118       | 1  |          | 07/03/14 15:03 | 1868-53-7 |      |
| Toluene-d8 (S)              | 99 %         |                                  | 71-128       | 1  |          | 07/03/14 15:03 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 93 %         |                                  | 56-144       | 1  |          | 07/03/14 15:03 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>9.2 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:43 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-7 (5-7)**      **Lab ID: 5099627012**      Collected: 06/19/14 11:50      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                  | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:39 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                  | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:39 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                  | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:39 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                  | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:39 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                  | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:39 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                  | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:39 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                  | ND      | ug/kg | 116          | 1  | 06/24/14 11:04 | 06/27/14 02:39 | 11096-82-5 |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                 | 84 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 02:39 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony   | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:09 | 7440-36-0  |      |
| Arsenic  | 3.1     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:09 | 7440-38-2  |      |
| Chromium   | 3.1     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:09 | 7440-47-3  |      |
| Cobalt   | 1.7     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:09 | 7440-48-4  |      |
| Iron   | 5660    | mg/kg | 50.2         | 1  | 06/21/14 10:44 | 06/24/14 10:09 | 7439-89-6  |      |
| Lead   | 5.2     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:09 | 7439-92-1  |      |
| Selenium   | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:09 | 7782-49-2  |      |
| Thallium   | 2.4     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:09 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                    |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene   | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 83-32-9    |      |
| Acenaphthylene   | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 208-96-8   |      |
| Anthracene   | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 120-12-7   |      |
| Benzo(a)anthracene                                       | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 56-55-3    |      |
| Benzo(a)pyrene   | ND      | ug/kg | 198          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 50-32-8    |      |
| Benzo(b)fluoranthene                                     | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                     | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 191-24-2   |      |
| Benzo(k)fluoranthene                                     | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 207-08-9   |      |
| Benzyl alcohol   | ND      | ug/kg | 769          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 101-55-3   |      |
| Butylbenzylphthalate                                     | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                  | ND      | ug/kg | 769          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 59-50-7    |      |
| 4-Chloroaniline  | ND      | ug/kg | 769          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                               | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                 | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                           | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 108-60-1   |      |
| 2-Chloronaphthalene                                      | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 91-58-7    |      |
| 2-Chlorophenol   | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                               | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 7005-72-3  |      |
| Chrysene   | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                    | ND      | ug/kg | 198          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 53-70-3    |      |
| Dibenzofuran   | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                   | ND      | ug/kg | 769          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 91-94-1    |      |
| 2,4-Dichlorophenol                                       | ND      | ug/kg | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-7 (5-7)**      **Lab ID: 5099627012**      Collected: 06/19/14 11:50      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1860         | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1860         | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 769          | 1  | 06/24/14 14:24 | 06/25/14 15:12 |           |      |
| Naphthalene                  | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1860         | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1860         | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1860         | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1860         | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1860         | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 385          | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 75 %.   |   | 28-101       | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 75 %.   |   | 31-94        | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 98 %.   |   | 26-110       | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 1718-51-0 |      |
| Phenol-d5 (S)                | 78 %.   |   | 28-101       | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 78 %.   |   | 24-104       | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 80 %.   |   | 16-122       | 1  | 06/24/14 14:24 | 06/25/14 15:12 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-7 (5-7)**      **Lab ID: 5099627012**      Collected: 06/19/14 11:50      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 97.4         | 1  |          | 07/03/14 16:44 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 97.4         | 1  |          | 07/03/14 16:44 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 97.4         | 1  |          | 07/03/14 16:44 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.4         | 1  |          | 07/03/14 16:44 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.7          | 1  |          | 07/03/14 16:44 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 97.4         | 1  |          | 07/03/14 16:44 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 97.4         | 1  |          | 07/03/14 16:44 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 16:44 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 97.4         | 1  |          | 07/03/14 16:44 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 97.4         | 1  |          | 07/03/14 16:44 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-7 (5-7)**      **Lab ID: 5099627012**      Collected: 06/19/14 11:50      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 19.5         | 1  |          | 07/03/14 16:44 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 24.4         | 1  |          | 07/03/14 16:44 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 97.4         | 1  |          | 07/03/14 16:44 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 4.9          | 1  |          | 07/03/14 16:44 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 9.7          | 1  |          | 07/03/14 16:44 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 95 %          |                                  | 85-118       | 1  |          | 07/03/14 16:44 | 1868-53-7 |      |
| Toluene-d8 (S)              | 102 %         |                                  | 71-128       | 1  |          | 07/03/14 16:44 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 92 %          |                                  | 56-144       | 1  |          | 07/03/14 16:44 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>14.5 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:44 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 5099627

**Sample: TMW-3 (8-9)**      **Lab ID: 5099627014**      Collected: 06/19/14 09:00      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                  | ND      | ug/kg | 106          | 1  | 06/24/14 11:04 | 06/27/14 02:45 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                  | ND      | ug/kg | 106          | 1  | 06/24/14 11:04 | 06/27/14 02:45 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                  | ND      | ug/kg | 106          | 1  | 06/24/14 11:04 | 06/27/14 02:45 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                  | ND      | ug/kg | 106          | 1  | 06/24/14 11:04 | 06/27/14 02:45 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                  | ND      | ug/kg | 106          | 1  | 06/24/14 11:04 | 06/27/14 02:45 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                  | ND      | ug/kg | 106          | 1  | 06/24/14 11:04 | 06/27/14 02:45 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                  | ND      | ug/kg | 106          | 1  | 06/24/14 11:04 | 06/27/14 02:45 | 11096-82-5 |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                 | 91 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 02:45 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony   | ND      | mg/kg | 0.96         | 1  | 06/21/14 10:44 | 06/24/14 10:11 | 7440-36-0  |      |
| Arsenic  | 1.5     | mg/kg | 0.96         | 1  | 06/21/14 10:44 | 06/24/14 10:11 | 7440-38-2  |      |
| Chromium   | 2.3     | mg/kg | 0.96         | 1  | 06/21/14 10:44 | 06/24/14 10:11 | 7440-47-3  |      |
| Cobalt   | ND      | mg/kg | 0.96         | 1  | 06/21/14 10:44 | 06/24/14 10:11 | 7440-48-4  |      |
| Iron   | 3250    | mg/kg | 47.8         | 1  | 06/21/14 10:44 | 06/24/14 10:11 | 7439-89-6  |      |
| Lead   | 2.6     | mg/kg | 0.96         | 1  | 06/21/14 10:44 | 06/24/14 10:11 | 7439-92-1  |      |
| Selenium   | ND      | mg/kg | 0.96         | 1  | 06/21/14 10:44 | 06/24/14 10:11 | 7782-49-2  |      |
| Thallium   | 1.3     | mg/kg | 0.96         | 1  | 06/21/14 10:44 | 06/24/14 10:11 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                    |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene   | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 83-32-9    |      |
| Acenaphthylene   | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 208-96-8   |      |
| Anthracene   | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 120-12-7   |      |
| Benzo(a)anthracene                                       | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 56-55-3    |      |
| Benzo(a)pyrene   | ND      | ug/kg | 178          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 50-32-8    |      |
| Benzo(b)fluoranthene                                     | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                     | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 191-24-2   |      |
| Benzo(k)fluoranthene                                     | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 207-08-9   |      |
| Benzyl alcohol   | ND      | ug/kg | 690          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 101-55-3   |      |
| Butylbenzylphthalate                                     | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                  | ND      | ug/kg | 690          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 59-50-7    |      |
| 4-Chloroaniline  | ND      | ug/kg | 690          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                               | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                 | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                           | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 108-60-1   |      |
| 2-Chloronaphthalene                                      | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 91-58-7    |      |
| 2-Chlorophenol   | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                               | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 7005-72-3  |      |
| Chrysene   | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                    | ND      | ug/kg | 178          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 53-70-3    |      |
| Dibenzofuran   | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                   | ND      | ug/kg | 690          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 91-94-1    |      |
| 2,4-Dichlorophenol                                       | ND      | ug/kg | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-3 (8-9)**      **Lab ID: 5099627014**      Collected: 06/19/14 09:00      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1670         | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1670         | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 690          | 1  | 06/25/14 11:19 | 06/26/14 01:45 |           |      |
| Naphthalene                  | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1670         | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1670         | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1670         | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1670         | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1670         | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 345          | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 64 %.   |   | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 65 %.   |   | 31-94        | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 90 %.   |   | 26-110       | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 1718-51-0 |      |
| Phenol-d5 (S)                | 70 %.   |   | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 68 %.   |   | 24-104       | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 75 %.   |   | 16-122       | 1  | 06/25/14 11:19 | 06/26/14 01:45 | 118-79-6  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-3 (8-9)**      **Lab ID: 5099627014**      Collected: 06/19/14 09:00      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 96.4         | 1  |          | 07/02/14 20:18 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 96.4         | 1  |          | 07/02/14 20:18 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 96.4         | 1  |          | 07/02/14 20:18 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.1         | 1  |          | 07/02/14 20:18 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.6          | 1  |          | 07/02/14 20:18 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 96.4         | 1  |          | 07/02/14 20:18 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 96.4         | 1  |          | 07/02/14 20:18 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.8          | 1  |          | 07/02/14 20:18 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 96.4         | 1  |          | 07/02/14 20:18 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 96.4         | 1  |          | 07/02/14 20:18 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: TMW-3 (8-9)**      **Lab ID: 5099627014**      Collected: 06/19/14 09:00      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 98-82-8   |      |
| p-Isopropyltoluene          | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 99-87-6   |      |
| Methylene Chloride          | ND      | ug/kg                            | 19.3         | 1  |          | 07/02/14 20:18 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/kg                            | 24.1         | 1  |          | 07/02/14 20:18 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 103-65-1  |      |
| Styrene                     | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 127-18-4  |      |
| Toluene                     | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/kg                            | 96.4         | 1  |          | 07/02/14 20:18 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/kg                            | 4.8          | 1  |          | 07/02/14 20:18 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/kg                            | 9.6          | 1  |          | 07/02/14 20:18 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 86 %    |                                  | 85-118       | 1  |          | 07/02/14 20:18 | 1868-53-7 |      |
| Toluene-d8 (S)              | 101 %   |                                  | 71-128       | 1  |          | 07/02/14 20:18 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 93 %    |                                  | 56-144       | 1  |          | 07/02/14 20:18 | 460-00-4  |      |
| <b>Percent Moisture</b>     |         | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | 5.6 %   |                                  | 0.10         | 1  |          | 06/26/14 09:44 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-9 (2-4)**      **Lab ID: 5099627015**      Collected: 06/19/14 15:00      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                  | ND      | ug/kg | 123          | 1  | 06/24/14 11:04 | 06/27/14 02:51 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                  | ND      | ug/kg | 123          | 1  | 06/24/14 11:04 | 06/27/14 02:51 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                  | ND      | ug/kg | 123          | 1  | 06/24/14 11:04 | 06/27/14 02:51 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                  | ND      | ug/kg | 123          | 1  | 06/24/14 11:04 | 06/27/14 02:51 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                  | ND      | ug/kg | 123          | 1  | 06/24/14 11:04 | 06/27/14 02:51 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                  | ND      | ug/kg | 123          | 1  | 06/24/14 11:04 | 06/27/14 02:51 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                  | ND      | ug/kg | 123          | 1  | 06/24/14 11:04 | 06/27/14 02:51 | 11096-82-5 |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                 | 95 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 02:51 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony   | ND      | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:13 | 7440-36-0  |      |
| Arsenic  | 4.8     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:13 | 7440-38-2  |      |
| Chromium   | 10.3    | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:13 | 7440-47-3  |      |
| Cobalt   | 10.6    | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:13 | 7440-48-4  |      |
| Iron   | 11500   | mg/kg | 52.6         | 1  | 06/21/14 10:44 | 06/24/14 10:13 | 7439-89-6  |      |
| Lead   | 9.0     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:13 | 7439-92-1  |      |
| Selenium   | ND      | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:13 | 7782-49-2  |      |
| Thallium   | 3.3     | mg/kg | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:13 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                    |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene   | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 83-32-9    |      |
| Acenaphthylene   | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 208-96-8   |      |
| Anthracene   | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 120-12-7   |      |
| Benzo(a)anthracene                                       | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 56-55-3    |      |
| Benzo(a)pyrene   | ND      | ug/kg | 208          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 50-32-8    |      |
| Benzo(b)fluoranthene                                     | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                     | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 191-24-2   |      |
| Benzo(k)fluoranthene                                     | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 207-08-9   |      |
| Benzyl alcohol   | ND      | ug/kg | 809          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 101-55-3   |      |
| Butylbenzylphthalate                                     | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                  | ND      | ug/kg | 809          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 59-50-7    |      |
| 4-Chloroaniline  | ND      | ug/kg | 809          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                               | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                 | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                           | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 108-60-1   |      |
| 2-Chloronaphthalene                                      | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 91-58-7    |      |
| 2-Chlorophenol   | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                               | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 7005-72-3  |      |
| Chrysene   | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                    | ND      | ug/kg | 208          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 53-70-3    |      |
| Dibenzofuran   | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                   | ND      | ug/kg | 809          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 91-94-1    |      |
| 2,4-Dichlorophenol                                       | ND      | ug/kg | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 120-83-2   |      |

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**ANALYTICAL RESULTS**

Project: Sibley - Accucast

Pace Project No.: 5099627

Sample: P-9 (2-4) Lab ID: 5099627015 Collected: 06/19/14 15:00 Received: 06/20/14 10:42 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters                   | Results | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|--|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270 Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |  |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg  | 1960         | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg  | 1960         | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg  | 809          | 1  | 06/25/14 11:19 | 06/26/14 02:07 |           |      |
| Naphthalene                  | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg  | 1960         | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg  | 1960         | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg  | 1960         | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg  | 1960         | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg  | 1960         | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg  | 404          | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 88-06-2   |      |
| <b>Surrogates</b>            |         |  |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 62 %.   |  | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 61 %.   |  | 31-94        | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 89 %.   |  | 26-110       | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 1718-51-0 |      |
| Phenol-d5 (S)                | 70 %.   |  | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 66 %.   |  | 24-104       | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 67 %.   |  | 16-122       | 1  | 06/25/14 11:19 | 06/26/14 02:07 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-9 (2-4)**      **Lab ID: 5099627015**      Collected: 06/19/14 15:00      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 106          | 1  |          | 07/02/14 20:51 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 106          | 1  |          | 07/02/14 20:51 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 106          | 1  |          | 07/02/14 20:51 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 26.5         | 1  |          | 07/02/14 20:51 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.6         | 1  |          | 07/02/14 20:51 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 106          | 1  |          | 07/02/14 20:51 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 106          | 1  |          | 07/02/14 20:51 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.3          | 1  |          | 07/02/14 20:51 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 106          | 1  |          | 07/02/14 20:51 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 106          | 1  |          | 07/02/14 20:51 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-9 (2-4)**      **Lab ID: 5099627015**      Collected: 06/19/14 15:00      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 21.2         | 1  |          | 07/02/14 20:51 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 26.5         | 1  |          | 07/02/14 20:51 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 106          | 1  |          | 07/02/14 20:51 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.3          | 1  |          | 07/02/14 20:51 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 10.6         | 1  |          | 07/02/14 20:51 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 89 %          |                                  | 85-118       | 1  |          | 07/02/14 20:51 | 1868-53-7 |      |
| Toluene-d8 (S)              | 101 %         |                                  | 71-128       | 1  |          | 07/02/14 20:51 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 94 %          |                                  | 56-144       | 1  |          | 07/02/14 20:51 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>18.7 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:44 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 5099627

**Sample: P-3 (8-10)**      **Lab ID: 5099627016**      Collected: 06/19/14 09:55      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|--|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg  | 115          | 1  | 06/24/14 11:04 | 06/27/14 02:56 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg  | 115          | 1  | 06/24/14 11:04 | 06/27/14 02:56 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg  | 115          | 1  | 06/24/14 11:04 | 06/27/14 02:56 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg  | 115          | 1  | 06/24/14 11:04 | 06/27/14 02:56 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg  | 115          | 1  | 06/24/14 11:04 | 06/27/14 02:56 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg  | 115          | 1  | 06/24/14 11:04 | 06/27/14 02:56 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg  | 115          | 1  | 06/24/14 11:04 | 06/27/14 02:56 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |  |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 81 %.   |  | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 02:56 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010 Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:15 | 7440-36-0  |      |
| Arsenic                               | 8.9     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:15 | 7440-38-2  |      |
| Chromium                              | 8.0     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:15 | 7440-47-3  |      |
| Cobalt                                | 3.4     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:15 | 7440-48-4  |      |
| Iron                                  | 18100   | mg/kg  | 51.2         | 1  | 06/21/14 10:44 | 06/24/14 10:15 | 7439-89-6  |      |
| Lead                                  | 16.7    | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:15 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:15 | 7782-49-2  |      |
| Thallium                              | 2.9     | mg/kg  | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:15 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg  | 194          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg  | 754          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg  | 754          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg  | 754          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg  | 194          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg  | 754          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg  | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 120-83-2   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-3 (8-10)**      **Lab ID: 5099627016**      Collected: 06/19/14 09:55      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1830         | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1830         | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 754          | 1  | 06/25/14 11:19 | 06/26/14 02:30 |           |      |
| Naphthalene                  | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1830         | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1830         | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1830         | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1830         | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1830         | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 377          | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 65 %.   |   | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 65 %.   |   | 31-94        | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 89 %.   |   | 26-110       | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 1718-51-0 |      |
| Phenol-d5 (S)                | 73 %.   |   | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 69 %.   |   | 24-104       | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 76 %.   |   | 16-122       | 1  | 06/25/14 11:19 | 06/26/14 02:30 | 118-79-6  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-3 (8-10)**      **Lab ID: 5099627016**      Collected: 06/19/14 09:55      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 101          | 1  |          | 07/03/14 15:36 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 101          | 1  |          | 07/03/14 15:36 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 101          | 1  |          | 07/03/14 15:36 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 25.3         | 1  |          | 07/03/14 15:36 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.1         | 1  |          | 07/03/14 15:36 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 101          | 1  |          | 07/03/14 15:36 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 101          | 1  |          | 07/03/14 15:36 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.1          | 1  |          | 07/03/14 15:36 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 101          | 1  |          | 07/03/14 15:36 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 101          | 1  |          | 07/03/14 15:36 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-3 (8-10)**      **Lab ID: 5099627016**      Collected: 06/19/14 09:55      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 20.2         | 1  |          | 07/03/14 15:36 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 25.3         | 1  |          | 07/03/14 15:36 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 101          | 1  |          | 07/03/14 15:36 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.1          | 1  |          | 07/03/14 15:36 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 10.1         | 1  |          | 07/03/14 15:36 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 97 %.         |                                  | 85-118       | 1  |          | 07/03/14 15:36 | 1868-53-7 |      |
| Toluene-d8 (S)              | 103 %.        |                                  | 71-128       | 1  |          | 07/03/14 15:36 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 94 %.         |                                  | 56-144       | 1  |          | 07/03/14 15:36 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>13.3 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:44 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-9 (13-15)**      **Lab ID: 5099627017**      Collected: 06/19/14 15:10      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 117          | 1  | 06/24/14 11:04 | 06/27/14 03:02 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 117          | 1  | 06/24/14 11:04 | 06/27/14 03:02 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 117          | 1  | 06/24/14 11:04 | 06/27/14 03:02 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 117          | 1  | 06/24/14 11:04 | 06/27/14 03:02 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 117          | 1  | 06/24/14 11:04 | 06/27/14 03:02 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 117          | 1  | 06/24/14 11:04 | 06/27/14 03:02 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 117          | 1  | 06/24/14 11:04 | 06/27/14 03:02 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 95 %.   |       | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 03:02 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:21 | 7440-36-0  |      |
| Arsenic   | 3.1     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:21 | 7440-38-2  |      |
| Chromium  | 4.6     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:21 | 7440-47-3  |      |
| Cobalt  | 2.7     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:21 | 7440-48-4  |      |
| Iron  | 5050    | mg/kg | 51.5         | 1  | 06/21/14 10:44 | 06/24/14 10:21 | 7439-89-6  |      |
| Lead  | 4.9     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:21 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:21 | 7782-49-2  |      |
| Thallium  | 2.2     | mg/kg | 1.0          | 1  | 06/21/14 10:44 | 06/24/14 10:21 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 197          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 764          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 764          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 764          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 197          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 764          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 120-83-2   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-9 (13-15)**      **Lab ID: 5099627017**      Collected: 06/19/14 15:10      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1850         | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1850         | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 764          | 1  | 06/25/14 11:19 | 06/26/14 02:53 |           |      |
| Naphthalene                  | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1850         | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1850         | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1850         | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1850         | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1850         | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 382          | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 59 %.   |   | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 60 %.   |   | 31-94        | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 85 %.   |   | 26-110       | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 1718-51-0 |      |
| Phenol-d5 (S)                | 67 %.   |   | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 64 %.   |   | 24-104       | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 72 %.   |   | 16-122       | 1  | 06/25/14 11:19 | 06/26/14 02:53 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-9 (13-15)**      **Lab ID: 5099627017**      Collected: 06/19/14 15:10      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 97.3         | 1  |          | 07/02/14 21:58 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 97.3         | 1  |          | 07/02/14 21:58 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 97.3         | 1  |          | 07/02/14 21:58 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.3         | 1  |          | 07/02/14 21:58 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.7          | 1  |          | 07/02/14 21:58 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 97.3         | 1  |          | 07/02/14 21:58 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 97.3         | 1  |          | 07/02/14 21:58 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.9          | 1  |          | 07/02/14 21:58 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 97.3         | 1  |          | 07/02/14 21:58 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 97.3         | 1  |          | 07/02/14 21:58 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: P-9 (13-15)**      **Lab ID: 5099627017**      Collected: 06/19/14 15:10      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 19.5         | 1  |          | 07/02/14 21:58 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 24.3         | 1  |          | 07/02/14 21:58 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 97.3         | 1  |          | 07/02/14 21:58 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 4.9          | 1  |          | 07/02/14 21:58 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 9.7          | 1  |          | 07/02/14 21:58 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 86 %          |                                  | 85-118       | 1  |          | 07/02/14 21:58 | 1868-53-7 |      |
| Toluene-d8 (S)              | 101 %         |                                  | 71-128       | 1  |          | 07/02/14 21:58 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 93 %          |                                  | 56-144       | 1  |          | 07/02/14 21:58 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>14.8 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:44 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: Surf-Dupe**      **Lab ID: 5099627018**      Collected: 06/19/14 08:00      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|---|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg   | 121          | 1  | 06/24/14 11:04 | 06/27/14 03:08 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg   | 121          | 1  | 06/24/14 11:04 | 06/27/14 03:08 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg   | 121          | 1  | 06/24/14 11:04 | 06/27/14 03:08 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg   | 121          | 1  | 06/24/14 11:04 | 06/27/14 03:08 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg   | 121          | 1  | 06/24/14 11:04 | 06/27/14 03:08 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg   | 121          | 1  | 06/24/14 11:04 | 06/27/14 03:08 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg   | 121          | 1  | 06/24/14 11:04 | 06/27/14 03:08 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |   |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 82 %.   |   | 30-106       | 1  | 06/24/14 11:04 | 06/27/14 03:08 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010    Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg   | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:23 | 7440-36-0  |      |
| Arsenic                               | 1.9     | mg/kg   | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:23 | 7440-38-2  |      |
| Chromium                              | 2.8     | mg/kg   | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:23 | 7440-47-3  |      |
| Cobalt                                | 1.4     | mg/kg   | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:23 | 7440-48-4  |      |
| Iron                                  | 3480    | mg/kg   | 54.1         | 1  | 06/21/14 10:44 | 06/24/14 10:23 | 7439-89-6  |      |
| Lead                                  | 3.2     | mg/kg   | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:23 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg   | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:23 | 7782-49-2  |      |
| Thallium                              | 2.1     | mg/kg   | 1.1          | 1  | 06/21/14 10:44 | 06/24/14 10:23 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg   | 207          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg   | 804          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg   | 804          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg   | 804          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg   | 207          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg   | 804          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: Surf-Dupe**      **Lab ID: 5099627018**      Collected: 06/19/14 08:00      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1950         | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1950         | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 804          | 1  | 06/25/14 11:19 | 06/26/14 03:15 |           |      |
| Naphthalene                  | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1950         | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1950         | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1950         | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1950         | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1950         | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 402          | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 68 %.   |   | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 68 %.   |   | 31-94        | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 89 %.   |   | 26-110       | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 1718-51-0 |      |
| Phenol-d5 (S)                | 76 %.   |   | 28-101       | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 73 %.   |   | 24-104       | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 78 %.   |   | 16-122       | 1  | 06/25/14 11:19 | 06/26/14 03:15 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: Surf-Dupe**      **Lab ID: 5099627018**      Collected: 06/19/14 08:00      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 88.0         | 1  |          | 07/03/14 04:40 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 88.0         | 1  |          | 07/03/14 04:40 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 88.0         | 1  |          | 07/03/14 04:40 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 22.0         | 1  |          | 07/03/14 04:40 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 8.8          | 1  |          | 07/03/14 04:40 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 88.0         | 1  |          | 07/03/14 04:40 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 88.0         | 1  |          | 07/03/14 04:40 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.4          | 1  |          | 07/03/14 04:40 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 88.0         | 1  |          | 07/03/14 04:40 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 88.0         | 1  |          | 07/03/14 04:40 | 74-88-4    |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: Surf-Dupe**      **Lab ID: 5099627018**      Collected: 06/19/14 08:00      Received: 06/20/14 10:42      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 17.6         | 1  |          | 07/03/14 04:40 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 22.0         | 1  |          | 07/03/14 04:40 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 88.0         | 1  |          | 07/03/14 04:40 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 4.4          | 1  |          | 07/03/14 04:40 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 8.8          | 1  |          | 07/03/14 04:40 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 94 %          |                                  | 85-118       | 1  |          | 07/03/14 04:40 | 1868-53-7 |      |
| Toluene-d8 (S)              | 101 %         |                                  | 71-128       | 1  |          | 07/03/14 04:40 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 94 %          |                                  | 56-144       | 1  |          | 07/03/14 04:40 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>18.0 %</b> |                                  | 0.10         | 1  |          | 06/26/14 09:44 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: Trip Blank**      **Lab ID: 5099627019**      Collected: 06/19/14 08:00      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 100          | 1  |          | 07/03/14 05:13 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 100          | 1  |          | 07/03/14 05:13 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 100          | 1  |          | 07/03/14 05:13 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 25.0         | 1  |          | 07/03/14 05:13 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.0         | 1  |          | 07/03/14 05:13 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 100          | 1  |          | 07/03/14 05:13 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 100          | 1  |          | 07/03/14 05:13 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 100          | 1  |          | 07/03/14 05:13 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 100          | 1  |          | 07/03/14 05:13 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 5099627

**Sample: Trip Blank**      **Lab ID: 5099627019**      Collected: 06/19/14 08:00      Received: 06/20/14 10:42      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 98-82-8   |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 99-87-6   |      |
| Methylene Chloride          | ND      | ug/kg                       | 20.0         | 1  |          | 07/03/14 05:13 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/kg                       | 25.0         | 1  |          | 07/03/14 05:13 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 103-65-1  |      |
| Styrene                     | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 127-18-4  |      |
| Toluene                     | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/kg                       | 100          | 1  |          | 07/03/14 05:13 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/kg                       | 5.0          | 1  |          | 07/03/14 05:13 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/kg                       | 10.0         | 1  |          | 07/03/14 05:13 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                             |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 95 %.   |                             | 85-118       | 1  |          | 07/03/14 05:13 | 1868-53-7 |      |
| Toluene-d8 (S)              | 99 %.   |                             | 71-128       | 1  |          | 07/03/14 05:13 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 94 %.   |                             | 56-144       | 1  |          | 07/03/14 05:13 | 460-00-4  |      |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

QC Batch: MPRP/13625 Analysis Method: EPA 6010  
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
 Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004, 5099627005, 5099627006, 5099627007, 5099627008, 5099627009, 5099627010, 5099627011, 5099627012, 5099627014, 5099627015, 5099627016, 5099627017, 5099627018

METHOD BLANK: 1115641 Matrix: Solid  
 Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004, 5099627005, 5099627006, 5099627007, 5099627008, 5099627009, 5099627010, 5099627011, 5099627012, 5099627014, 5099627015, 5099627016, 5099627017, 5099627018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Antimony  | mg/kg | ND           | 1.0             | 06/24/14 09:19 |            |
| Arsenic   | mg/kg | ND           | 1.0             | 06/24/14 09:19 |            |
| Chromium  | mg/kg | ND           | 1.0             | 06/24/14 09:19 |            |
| Cobalt    | mg/kg | ND           | 1.0             | 06/24/14 09:19 |            |
| Iron      | mg/kg | ND           | 50.0            | 06/24/14 09:19 |            |
| Lead      | mg/kg | ND           | 1.0             | 06/24/14 09:19 |            |
| Selenium  | mg/kg | ND           | 1.0             | 06/24/14 09:19 |            |
| Thallium  | mg/kg | ND           | 1.0             | 06/24/14 09:19 |            |

LABORATORY CONTROL SAMPLE: 1115642

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Antimony  | mg/kg | 50          | 52.2       | 104       | 80-120       |            |
| Arsenic   | mg/kg | 50          | 52.6       | 105       | 80-120       |            |
| Chromium  | mg/kg | 50          | 50.9       | 102       | 80-120       |            |
| Cobalt    | mg/kg | 50          | 51.8       | 104       | 80-120       |            |
| Iron      | mg/kg | 500         | 520        | 104       | 80-120       |            |
| Lead      | mg/kg | 50          | 51.6       | 103       | 80-120       |            |
| Selenium  | mg/kg | 50          | 50.8       | 102       | 80-120       |            |
| Thallium  | mg/kg | 50          | 51.2       | 102       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1115643 1115644

| Parameter | Units | 5099627001 |                | 5099627001      |           | 5099627001 |          | % Rec | % Rec  | % Rec | Limits | RPD | Max RPD | Qual |
|-----------|-------|------------|----------------|-----------------|-----------|------------|----------|-------|--------|-------|--------|-----|---------|------|
|           |       | MS Result  | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec |       |        |       |        |     |         |      |
| Antimony  | mg/kg | ND         | 52.3           | 50.1            | 33.3      | 27.7       | 64       | 55    | 75-125 | 19    | 20     | M3  |         |      |
| Arsenic   | mg/kg | 2.9        | 52.3           | 50.1            | 56.1      | 54.1       | 102      | 102   | 75-125 | 4     | 20     |     |         |      |
| Chromium  | mg/kg | 10.1       | 52.3           | 50.1            | 53.1      | 55.0       | 82       | 90    | 75-125 | 4     | 20     |     |         |      |
| Cobalt    | mg/kg | 2.6        | 52.3           | 50.1            | 51.0      | 50.4       | 93       | 95    | 75-125 | 1     | 20     |     |         |      |
| Iron      | mg/kg | 10900      | 523            | 501             | 9280      | 10100      | -319     | -169  | 75-125 | 8     | 20     | P6  |         |      |
| Lead      | mg/kg | 10.7       | 52.3           | 50.1            | 61.5      | 57.6       | 97       | 94    | 75-125 | 6     | 20     |     |         |      |
| Selenium  | mg/kg | ND         | 52.3           | 50.1            | 50.1      | 48.8       | 96       | 97    | 75-125 | 3     | 20     |     |         |      |
| Thallium  | mg/kg | 2.2        | 52.3           | 50.1            | 51.1      | 51.3       | 93       | 98    | 75-125 | 0     | 20     |     |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

QC Batch: MSV/66379 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004

METHOD BLANK: 1121337 Matrix: Solid  
 Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 07/01/14 23:21 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 07/01/14 23:21 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 07/01/14 23:21 |            |
| Acetone                     | ug/kg | ND           | 100             | 07/01/14 23:21 |            |
| Acrolein                    | ug/kg | ND           | 100             | 07/01/14 23:21 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 07/01/14 23:21 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 07/01/14 23:21 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

METHOD BLANK: 1121337

Matrix: Solid

Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 07/01/14 23:21 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 07/01/14 23:21 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 07/01/14 23:21 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 07/01/14 23:21 | N2         |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 07/01/14 23:21 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 07/01/14 23:21 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 07/01/14 23:21 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 07/01/14 23:21 |            |
| 4-Bromofluorobenzene (S)    | %     | 95           | 56-144          | 07/01/14 23:21 |            |
| Dibromofluoromethane (S)    | %     | 101          | 85-118          | 07/01/14 23:21 |            |
| Toluene-d8 (S)              | %     | 99           | 71-128          | 07/01/14 23:21 |            |

LABORATORY CONTROL SAMPLE: 1121338

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/kg | 50          | 46.0       | 92        | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 45.2       | 90        | 65-124       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 44.4       | 89        | 66-126       |            |
| 1,2,4-Trimethylbenzene    | ug/kg | 50          | 48.3       | 97        | 67-126       |            |
| 1,2-Dichloropropane       | ug/kg | 50          | 43.6       | 87        | 75-118       |            |
| Benzene                   | ug/kg | 50          | 48.7       | 97        | 74-119       |            |
| Chlorobenzene             | ug/kg | 50          | 46.3       | 93        | 77-122       |            |
| Chloroform                | ug/kg | 50          | 45.4       | 91        | 75-124       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

LABORATORY CONTROL SAMPLE: 1121338

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Ethylbenzene              | ug/kg | 50          | 47.0       | 94        | 72-123       |            |
| Isopropylbenzene (Cumene) | ug/kg | 50          | 49.7       | 99        | 65-123       |            |
| Methyl-tert-butyl ether   | ug/kg | 100         | 91.3       | 91        | 68-120       |            |
| Naphthalene               | ug/kg | 50          | 50.4       | 101       | 67-131       |            |
| Tetrachloroethene         | ug/kg | 50          | 43.4       | 87        | 72-126       |            |
| Toluene                   | ug/kg | 50          | 45.9       | 92        | 71-121       |            |
| Trichloroethene           | ug/kg | 50          | 46.8       | 94        | 74-123       |            |
| Vinyl chloride            | ug/kg | 50          | 47.9       | 96        | 55-128       |            |
| Xylene (Total)            | ug/kg | 150         | 145        | 97        | 66-124       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 99        | 56-144       |            |
| Dibromofluoromethane (S)  | %     |             |            | 102       | 85-118       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 71-128       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1121339 1121340

| Parameter                 | Units | MS                |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual  |
|---------------------------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|-------|
|                           |       | 5099517019 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |       |
| 1,1,1-Trichloroethane     | ug/kg | ND                | 45.6        | 54.9        | 41.1      | 48.7     | 90        | 89           | 26-143 | 17      | 20    |
| 1,1,2,2-Tetrachloroethane | ug/kg | ND                | 45.6        | 54.9        | 41.3      | 50.5     | 91        | 92           | 10-156 | 20      | 20    |
| 1,1-Dichloroethene        | ug/kg | ND                | 45.6        | 54.9        | 42.4      | 51.2     | 93        | 93           | 31-146 | 19      | 20    |
| 1,2,4-Trimethylbenzene    | ug/kg | ND                | 45.6        | 54.9        | 47.3      | 56.4     | 104       | 103          | 10-139 | 17      | 20    |
| 1,2-Dichloropropane       | ug/kg | ND                | 45.6        | 54.9        | 41.6      | 49.8     | 91        | 91           | 29-135 | 18      | 20    |
| Benzene                   | ug/kg | ND                | 45.6        | 54.9        | 46.8      | 55.9     | 103       | 102          | 27-140 | 18      | 20    |
| Chlorobenzene             | ug/kg | ND                | 45.6        | 54.9        | 43.1      | 50.8     | 95        | 93           | 10-136 | 17      | 20    |
| Chloroform                | ug/kg | ND                | 45.6        | 54.9        | 42.0      | 50.4     | 92        | 92           | 36-138 | 18      | 20    |
| Ethylbenzene              | ug/kg | ND                | 45.6        | 54.9        | 44.4      | 53.2     | 98        | 97           | 10-144 | 18      | 20    |
| Isopropylbenzene (Cumene) | ug/kg | ND                | 45.6        | 54.9        | 46.5      | 54.1     | 102       | 99           | 10-134 | 15      | 20    |
| Methyl-tert-butyl ether   | ug/kg | ND                | 91          | 110         | 78.2      | 95.1     | 86        | 87           | 30-147 | 19      | 20    |
| Naphthalene               | ug/kg | ND                | 45.6        | 54.9        | 42.0      | 50.4     | 92        | 92           | 10-130 | 18      | 20    |
| Tetrachloroethene         | ug/kg | 8.3               | 45.6        | 54.9        | 75.5      | 150      | 148       | 258          | 10-153 | 66      | 20 R1 |
| Toluene                   | ug/kg | ND                | 45.6        | 54.9        | 44.6      | 51.7     | 98        | 94           | 10-140 | 15      | 20    |
| Trichloroethene           | ug/kg | ND                | 45.6        | 54.9        | 44.3      | 52.7     | 97        | 96           | 17-148 | 17      | 20    |
| Vinyl chloride            | ug/kg | ND                | 45.6        | 54.9        | 45.0      | 53.9     | 99        | 98           | 30-145 | 18      | 20    |
| Xylene (Total)            | ug/kg | ND                | 136         | 164         | 137       | 162      | 100       | 98           | 10-143 | 17      | 20    |
| 4-Bromofluorobenzene (S)  | %     |                   |             |             |           |          | 93        | 92           | 56-144 |         |       |
| Dibromofluoromethane (S)  | %     |                   |             |             |           |          | 94        | 96           | 85-118 |         |       |
| Toluene-d8 (S)            | %     |                   |             |             |           |          | 100       | 98           | 71-128 |         |       |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

QC Batch: MSV/66420 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 5099627005, 5099627006, 5099627007, 5099627008, 5099627009, 5099627010, 5099627014, 5099627015, 5099627017

METHOD BLANK: 1122141 Matrix: Solid  
 Associated Lab Samples: 5099627005, 5099627006, 5099627007, 5099627008, 5099627009, 5099627010, 5099627014, 5099627015, 5099627017

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 07/02/14 12:26 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 07/02/14 12:26 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 07/02/14 12:26 |            |
| Acetone                     | ug/kg | ND           | 100             | 07/02/14 12:26 |            |
| Acrolein                    | ug/kg | ND           | 100             | 07/02/14 12:26 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 07/02/14 12:26 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 07/02/14 12:26 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

METHOD BLANK: 1122141

Matrix: Solid

Associated Lab Samples: 5099627005, 5099627006, 5099627007, 5099627008, 5099627009, 5099627010, 5099627014, 5099627015, 5099627017

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 07/02/14 12:26 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 07/02/14 12:26 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 07/02/14 12:26 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 07/02/14 12:26 | N2         |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 07/02/14 12:26 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 07/02/14 12:26 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 07/02/14 12:26 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 07/02/14 12:26 |            |
| 4-Bromofluorobenzene (S)    | %     | 96           | 56-144          | 07/02/14 12:26 |            |
| Dibromofluoromethane (S)    | %     | 93           | 85-118          | 07/02/14 12:26 |            |
| Toluene-d8 (S)              | %     | 100          | 71-128          | 07/02/14 12:26 |            |

LABORATORY CONTROL SAMPLE: 1122142

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/kg | 50          | 36.7       | 73        | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 46.0       | 92        | 65-124       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 37.8       | 76        | 66-126       |            |
| 1,2,4-Trimethylbenzene    | ug/kg | 50          | 46.5       | 93        | 67-126       |            |
| 1,2-Dichloropropane       | ug/kg | 50          | 41.0       | 82        | 75-118       |            |
| Benzene                   | ug/kg | 50          | 43.2       | 86        | 74-119       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

LABORATORY CONTROL SAMPLE: 1122142

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Chlorobenzene             | ug/kg | 50          | 42.1       | 84        | 77-122       |            |
| Chloroform                | ug/kg | 50          | 37.7       | 75        | 75-124       |            |
| Ethylbenzene              | ug/kg | 50          | 41.9       | 84        | 72-123       |            |
| Isopropylbenzene (Cumene) | ug/kg | 50          | 43.2       | 86        | 65-123       |            |
| Methyl-tert-butyl ether   | ug/kg | 100         | 73.0       | 73        | 68-120       |            |
| Naphthalene               | ug/kg | 50          | 49.4       | 99        | 67-131       |            |
| Tetrachloroethene         | ug/kg | 50          | 40.1       | 80        | 72-126       |            |
| Toluene                   | ug/kg | 50          | 41.5       | 83        | 71-121       |            |
| Trichloroethene           | ug/kg | 50          | 41.1       | 82        | 74-123       |            |
| Vinyl chloride            | ug/kg | 50          | 42.3       | 85        | 55-128       |            |
| Xylene (Total)            | ug/kg | 150         | 131        | 87        | 66-124       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 92        | 56-144       |            |
| Dibromofluoromethane (S)  | %     |             |            | 95        | 85-118       |            |
| Toluene-d8 (S)            | %     |             |            | 98        | 71-128       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

QC Batch: MSV/66438

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 5099627018, 5099627019

METHOD BLANK: 1122274

Matrix: Solid

Associated Lab Samples: 5099627018, 5099627019

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 07/03/14 01:19 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 07/03/14 01:19 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 07/03/14 01:19 |            |
| Acetone                     | ug/kg | ND           | 100             | 07/03/14 01:19 |            |
| Acrolein                    | ug/kg | ND           | 100             | 07/03/14 01:19 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 07/03/14 01:19 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 07/03/14 01:19 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast  
Pace Project No.: 5099627

METHOD BLANK: 1122274 Matrix: Solid  
Associated Lab Samples: 5099627018, 5099627019

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 07/03/14 01:19 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 07/03/14 01:19 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 07/03/14 01:19 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 07/03/14 01:19 | N2         |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 07/03/14 01:19 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 07/03/14 01:19 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 07/03/14 01:19 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 07/03/14 01:19 |            |
| 4-Bromofluorobenzene (S)    | %     | 94           | 56-144          | 07/03/14 01:19 |            |
| Dibromofluoromethane (S)    | %     | 89           | 85-118          | 07/03/14 01:19 |            |
| Toluene-d8 (S)              | %     | 101          | 71-128          | 07/03/14 01:19 |            |

LABORATORY CONTROL SAMPLE: 1122275

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/kg | 50          | 38.6       | 77        | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 45.3       | 91        | 65-124       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 44.4       | 89        | 66-126       |            |
| 1,2,4-Trimethylbenzene    | ug/kg | 50          | 47.2       | 94        | 67-126       |            |
| 1,2-Dichloropropane       | ug/kg | 50          | 43.6       | 87        | 75-118       |            |
| Benzene                   | ug/kg | 50          | 46.4       | 93        | 74-119       |            |
| Chlorobenzene             | ug/kg | 50          | 44.1       | 88        | 77-122       |            |
| Chloroform                | ug/kg | 50          | 40.0       | 80        | 75-124       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

LABORATORY CONTROL SAMPLE: 1122275

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Ethylbenzene              | ug/kg | 50          | 45.5       | 91        | 72-123       |            |
| Isopropylbenzene (Cumene) | ug/kg | 50          | 45.4       | 91        | 65-123       |            |
| Methyl-tert-butyl ether   | ug/kg | 100         | 87.0       | 87        | 68-120       |            |
| Naphthalene               | ug/kg | 50          | 48.9       | 98        | 67-131       |            |
| Tetrachloroethene         | ug/kg | 50          | 42.1       | 84        | 72-126       |            |
| Toluene                   | ug/kg | 50          | 44.5       | 89        | 71-121       |            |
| Trichloroethene           | ug/kg | 50          | 42.8       | 86        | 74-123       |            |
| Vinyl chloride            | ug/kg | 50          | 50.3       | 101       | 55-128       |            |
| Xylene (Total)            | ug/kg | 150         | 138        | 92        | 66-124       |            |
| 4-Bromofluorobenzene (S)  | %.    |             |            | 93        | 56-144       |            |
| Dibromofluoromethane (S)  | %.    |             |            | 92        | 85-118       |            |
| Toluene-d8 (S)            | %.    |             |            | 99        | 71-128       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

QC Batch: MSV/66523

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 5099627011, 5099627012, 5099627016

METHOD BLANK: 1123500

Matrix: Solid

Associated Lab Samples: 5099627011, 5099627012, 5099627016

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 07/03/14 13:56 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 07/03/14 13:56 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 07/03/14 13:56 |            |
| Acetone                     | ug/kg | ND           | 100             | 07/03/14 13:56 |            |
| Acrolein                    | ug/kg | ND           | 100             | 07/03/14 13:56 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 07/03/14 13:56 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 07/03/14 13:56 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast  
Pace Project No.: 5099627

METHOD BLANK: 1123500 Matrix: Solid  
Associated Lab Samples: 5099627011, 5099627012, 5099627016

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 07/03/14 13:56 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 07/03/14 13:56 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 07/03/14 13:56 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 07/03/14 13:56 | N2         |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 07/03/14 13:56 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 07/03/14 13:56 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 07/03/14 13:56 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 07/03/14 13:56 |            |
| 4-Bromofluorobenzene (S)    | %     | 92           | 56-144          | 07/03/14 13:56 |            |
| Dibromofluoromethane (S)    | %     | 93           | 85-118          | 07/03/14 13:56 |            |
| Toluene-d8 (S)              | %     | 99           | 71-128          | 07/03/14 13:56 |            |

LABORATORY CONTROL SAMPLE: 1123501

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/kg | 50          | 38.0       | 76        | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 42.9       | 86        | 65-124       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 43.8       | 88        | 66-126       |            |
| 1,2,4-Trimethylbenzene    | ug/kg | 50          | 47.1       | 94        | 67-126       |            |
| 1,2-Dichloropropane       | ug/kg | 50          | 41.4       | 83        | 75-118       |            |
| Benzene                   | ug/kg | 50          | 45.0       | 90        | 74-119       |            |
| Chlorobenzene             | ug/kg | 50          | 43.8       | 88        | 77-122       |            |
| Chloroform                | ug/kg | 50          | 39.1       | 78        | 75-124       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

LABORATORY CONTROL SAMPLE: 1123501

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Ethylbenzene              | ug/kg | 50          | 45.5       | 91        | 72-123       |            |
| Isopropylbenzene (Cumene) | ug/kg | 50          | 46.0       | 92        | 65-123       |            |
| Methyl-tert-butyl ether   | ug/kg | 100         | 80.9       | 81        | 68-120       |            |
| Naphthalene               | ug/kg | 50          | 46.4       | 93        | 67-131       |            |
| Tetrachloroethene         | ug/kg | 50          | 41.9       | 84        | 72-126       |            |
| Toluene                   | ug/kg | 50          | 43.3       | 87        | 71-121       |            |
| Trichloroethene           | ug/kg | 50          | 41.6       | 83        | 74-123       |            |
| Vinyl chloride            | ug/kg | 50          | 47.7       | 95        | 55-128       |            |
| Xylene (Total)            | ug/kg | 150         | 140        | 93        | 66-124       |            |
| 4-Bromofluorobenzene (S)  | %.    |             |            | 93        | 56-144       |            |
| Dibromofluoromethane (S)  | %.    |             |            | 96        | 85-118       |            |
| Toluene-d8 (S)            | %.    |             |            | 101       | 71-128       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast  
Pace Project No.: 5099627

QC Batch: OEXT/36210 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004, 5099627005, 5099627006, 5099627007, 5099627008, 5099627009, 5099627010, 5099627011, 5099627012, 5099627014, 5099627015, 5099627016, 5099627017, 5099627018

METHOD BLANK: 1116370 Matrix: Solid  
Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004, 5099627005, 5099627006, 5099627007, 5099627008, 5099627009, 5099627010, 5099627011, 5099627012, 5099627014, 5099627015, 5099627016, 5099627017, 5099627018

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | ND           | 100             | 06/27/14 01:01 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | ND           | 100             | 06/27/14 01:01 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | ND           | 100             | 06/27/14 01:01 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | ND           | 100             | 06/27/14 01:01 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | ND           | 100             | 06/27/14 01:01 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | ND           | 100             | 06/27/14 01:01 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND           | 100             | 06/27/14 01:01 |            |
| Tetrachloro-m-xylene (S) | %     | 82           | 30-106          | 06/27/14 01:01 |            |

LABORATORY CONTROL SAMPLE: 1116371

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 167         | 136        | 82        | 42-100       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 167         | 145        | 87        | 40-106       |            |
| Tetrachloro-m-xylene (S) | %     |             |            | 82        | 30-106       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1116372 1116373

| Parameter                | Units | MS                |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|--------------------------|-------|-------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
|                          |       | 5099627003 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      |
| PCB-1016 (Aroclor 1016)  | ug/kg | ND                | 199         | 198         | 155    | 159      | 78        | 80           | 10-145 | 3       | 20   |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND                | 199         | 198         | 153    | 165      | 77        | 83           | 16-132 | 8       | 20   |
| Tetrachloro-m-xylene (S) | %     |                   |             |             |        |          | 87        | 86           | 30-106 |         |      |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast  
Pace Project No.: 5099627

QC Batch: OEXT/36200 Analysis Method: EPA 8270  
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004, 5099627005, 5099627006, 5099627007, 5099627008, 5099627009

METHOD BLANK: 1115928 Matrix: Solid  
Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004, 5099627005, 5099627006, 5099627007, 5099627008, 5099627009

| Parameter                       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------|-------|--------------|-----------------|----------------|------------|
| 2,4,5-Trichlorophenol           | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2,4,6-Trichlorophenol           | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2,4-Dichlorophenol              | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2,4-Dimethylphenol              | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2,4-Dinitrophenol               | ug/kg | ND           | 1600            | 06/23/14 16:46 |            |
| 2,4-Dinitrotoluene              | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2,6-Dinitrotoluene              | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2-Chloronaphthalene             | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2-Chlorophenol                  | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2-Methylnaphthalene             | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2-Methylphenol(o-Cresol)        | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2-Nitroaniline                  | ug/kg | ND           | 1600            | 06/23/14 16:46 |            |
| 2-Nitrophenol                   | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 3&4-Methylphenol(m&p Cresol)    | ug/kg | ND           | 660             | 06/23/14 16:46 |            |
| 3,3'-Dichlorobenzidine          | ug/kg | ND           | 660             | 06/23/14 16:46 |            |
| 3-Nitroaniline                  | ug/kg | ND           | 1600            | 06/23/14 16:46 |            |
| 4,6-Dinitro-2-methylphenol      | ug/kg | ND           | 1600            | 06/23/14 16:46 |            |
| 4-Bromophenylphenyl ether       | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 4-Chloro-3-methylphenol         | ug/kg | ND           | 660             | 06/23/14 16:46 |            |
| 4-Chloroaniline                 | ug/kg | ND           | 660             | 06/23/14 16:46 |            |
| 4-Chlorophenylphenyl ether      | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 4-Nitroaniline                  | ug/kg | ND           | 1600            | 06/23/14 16:46 |            |
| 4-Nitrophenol                   | ug/kg | ND           | 1600            | 06/23/14 16:46 |            |
| Acenaphthene                    | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Acenaphthylene                  | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Anthracene                      | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Benzo(a)anthracene              | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Benzo(a)pyrene                  | ug/kg | ND           | 170             | 06/23/14 16:46 |            |
| Benzo(b)fluoranthene            | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Benzo(g,h,i)perylene            | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Benzo(k)fluoranthene            | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Benzyl alcohol                  | ug/kg | ND           | 660             | 06/23/14 16:46 |            |
| bis(2-Chloroethoxy)methane      | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| bis(2-Chloroethyl) ether        | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| bis(2-Ethylhexyl)phthalate      | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| bis(2chloro1 methylethyl) ether | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Butylbenzylphthalate            | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Chrysene                        | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Di-n-butylphthalate             | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Di-n-octylphthalate             | ug/kg | ND           | 330             | 06/23/14 16:46 |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

METHOD BLANK: 1115928

Matrix: Solid

Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004, 5099627005, 5099627006, 5099627007, 5099627008, 5099627009

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/kg | ND           | 170             | 06/23/14 16:46 |            |
| Dibenzofuran               | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Diethylphthalate           | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Dimethylphthalate          | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Fluoranthene               | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Fluorene                   | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Hexachloro-1,3-butadiene   | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Hexachlorobenzene          | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Hexachlorocyclopentadiene  | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Hexachloroethane           | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Isophorone                 | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| N-Nitroso-di-n-propylamine | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| N-Nitrosodiphenylamine     | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Naphthalene                | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Nitrobenzene               | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Pentachlorophenol          | ug/kg | ND           | 1600            | 06/23/14 16:46 |            |
| Phenanthrene               | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Phenol                     | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| Pyrene                     | ug/kg | ND           | 330             | 06/23/14 16:46 |            |
| 2,4,6-Tribromophenol (S)   | %     | 76           | 16-122          | 06/23/14 16:46 |            |
| 2-Fluorobiphenyl (S)       | %     | 74           | 31-94           | 06/23/14 16:46 |            |
| 2-Fluorophenol (S)         | %     | 74           | 24-104          | 06/23/14 16:46 |            |
| Nitrobenzene-d5 (S)        | %     | 70           | 28-101          | 06/23/14 16:46 |            |
| p-Terphenyl-d14 (S)        | %     | 101          | 26-110          | 06/23/14 16:46 |            |
| Phenol-d5 (S)              | %     | 75           | 28-101          | 06/23/14 16:46 |            |

LABORATORY CONTROL SAMPLE: 1115929

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,4-Dinitrotoluene      | ug/kg | 3330        | 2640       | 79        | 39-103       |            |
| 2-Chlorophenol          | ug/kg | 3330        | 2460       | 74        | 38-96        |            |
| 2-Methylnaphthalene     | ug/kg | 3330        | 2460       | 74        | 36-94        |            |
| 4-Chloro-3-methylphenol | ug/kg | 3330        | 2570       | 77        | 38-104       |            |
| 4-Nitrophenol           | ug/kg | 3330        | 2350       | 71        | 34-104       |            |
| Acenaphthene            | ug/kg | 3330        | 2560       | 77        | 43-99        |            |
| Acenaphthylene          | ug/kg | 3330        | 2530       | 76        | 42-101       |            |
| Anthracene              | ug/kg | 3330        | 2750       | 82        | 46-107       |            |
| Benzo(a)anthracene      | ug/kg | 3330        | 2740       | 82        | 45-108       |            |
| Benzo(a)pyrene          | ug/kg | 3330        | 2810       | 84        | 47-113       |            |
| Benzo(b)fluoranthene    | ug/kg | 3330        | 2740       | 82        | 41-110       |            |
| Benzo(g,h,i)perylene    | ug/kg | 3330        | 2730       | 82        | 42-112       |            |
| Benzo(k)fluoranthene    | ug/kg | 3330        | 2630       | 79        | 44-107       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

LABORATORY CONTROL SAMPLE: 1115929

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Chrysene                   | ug/kg | 3330        | 2810       | 84        | 43-103       |            |
| Dibenz(a,h)anthracene      | ug/kg | 3330        | 2780       | 83        | 43-110       |            |
| Fluoranthene               | ug/kg | 3330        | 2780       | 83        | 45-105       |            |
| Fluorene                   | ug/kg | 3330        | 2650       | 80        | 42-103       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 3330        | 2720       | 82        | 43-111       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 3330        | 2520       | 76        | 37-96        |            |
| Naphthalene                | ug/kg | 3330        | 2350       | 71        | 44-100       |            |
| Pentachlorophenol          | ug/kg | 3330        | 2120       | 64        | 21-103       |            |
| Phenanthrene               | ug/kg | 3330        | 2700       | 81        | 44-104       |            |
| Phenol                     | ug/kg | 3330        | 2510       | 75        | 37-101       |            |
| Pyrene                     | ug/kg | 3330        | 2790       | 84        | 44-105       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 80        | 16-122       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 76        | 31-94        |            |
| 2-Fluorophenol (S)         | %     |             |            | 74        | 24-104       |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 70        | 28-101       |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 98        | 26-110       |            |
| Phenol-d5 (S)              | %     |             |            | 76        | 28-101       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1115930 1115931

| Parameter                  | Units | MS                |             | MSD         |        | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|----------------------------|-------|-------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|---------|------|
|                            |       | 5099559004 Result | Spike Conc. | Spike Conc. | Result |           |            |          |           |              |         |      |
| 2,4-Dinitrotoluene         | ug/kg | ND                | 4470        | 4430        | 1820J  | 1550J     | 41         | 35       | 15-102    |              | 20      |      |
| 2-Chlorophenol             | ug/kg | ND                | 4470        | 4430        | 3200   | 3000      | 72         | 68       | 22-96     | 7            | 20      |      |
| 2-Methylnaphthalene        | ug/kg | ND                | 4470        | 4430        | 3250   | 3020      | 73         | 68       | 14-107    | 7            | 20      |      |
| 4-Chloro-3-methylphenol    | ug/kg | ND                | 4470        | 4430        | 3160J  | 2870J     | 71         | 65       | 21-105    |              | 20      |      |
| 4-Nitrophenol              | ug/kg | ND                | 4470        | 4430        | ND     | ND        | 45         | 42       | 12-107    |              | 20      |      |
| Acenaphthene               | ug/kg | ND                | 4470        | 4430        | 3410   | 3110      | 76         | 70       | 19-110    | 9            | 20      |      |
| Acenaphthylene             | ug/kg | ND                | 4470        | 4430        | 3290   | 3010      | 74         | 68       | 21-106    | 9            | 20      |      |
| Anthracene                 | ug/kg | ND                | 4470        | 4430        | 3360   | 3170      | 75         | 72       | 22-112    | 6            | 20      |      |
| Benzo(a)anthracene         | ug/kg | ND                | 4470        | 4430        | 3710   | 3240      | 66         | 56       | 13-116    | 14           | 20      |      |
| Benzo(a)pyrene             | ug/kg | ND                | 4470        | 4430        | 3700   | 3180      | 66         | 54       | 11-119    | 15           | 20      |      |
| Benzo(b)fluoranthene       | ug/kg | ND                | 4470        | 4430        | 3690   | 3000      | 63         | 48       | 10-126    | 21           | 20 R1   |      |
| Benzo(g,h,i)perylene       | ug/kg | ND                | 4470        | 4430        | 3300   | 2970      | 63         | 56       | 10-114    | 11           | 20      |      |
| Benzo(k)fluoranthene       | ug/kg | ND                | 4470        | 4430        | 3680   | 3400      | 65         | 59       | 10-117    | 8            | 20      |      |
| Chrysene                   | ug/kg | ND                | 4470        | 4430        | 3960   | 3370      | 68         | 55       | 14-107    | 16           | 20      |      |
| Dibenz(a,h)anthracene      | ug/kg | ND                | 4470        | 4430        | 3110   | 2950      | 64         | 61       | 10-119    | 5            | 20      |      |
| Fluoranthene               | ug/kg | ND                | 4470        | 4430        | 4970   | 3890      | 70         | 46       | 17-110    | 24           | 20 R1   |      |
| Fluorene                   | ug/kg | ND                | 4470        | 4430        | 3450   | 3130      | 77         | 71       | 17-115    | 10           | 20      |      |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND                | 4470        | 4430        | 3270   | 2940      | 63         | 56       | 11-111    | 11           | 20      |      |
| N-Nitroso-di-n-propylamine | ug/kg | ND                | 4470        | 4430        | 3200   | 3090      | 72         | 70       | 18-103    | 3            | 20      |      |
| Naphthalene                | ug/kg | ND                | 4470        | 4430        | 3210   | 2970      | 72         | 67       | 16-102    | 8            | 20      |      |
| Pentachlorophenol          | ug/kg | ND                | 4470        | 4430        | ND     | ND        | 61         | 56       | 10-100    |              | 20      |      |
| Phenanthrene               | ug/kg | ND                | 4470        | 4430        | 4010   | 3470      | 71         | 60       | 10-128    | 14           | 20      |      |
| Phenol                     | ug/kg | ND                | 4470        | 4430        | 3210   | 3020      | 72         | 68       | 22-97     | 6            | 20 1d   |      |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

| Parameter                | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1115930 |                      | 1115931      |               | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
|--------------------------|-------|--|----------------------|--------------|---------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
|                          |       | 5099559004<br>Result                           | MS<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result |                      |                       |              |               |             |              |                 |            |     |      |
| Pyrene                   | ug/kg | ND   | 4470                 | 4430         | 4650          | 3740                 |                       |              |               | 72          | 52           | 10-123          | 22         | 20  | R1   |
| 2,4,6-Tribromophenol (S) | %.    |  |                      |              |               |                      |                       |              |               | 67          | 66           | 16-122          |            |     |      |
| 2-Fluorobiphenyl (S)     | %.    |  |                      |              |               |                      |                       |              |               | 75          | 69           | 31-94           |            |     |      |
| 2-Fluorophenol (S)       | %.    |  |                      |              |               |                      |                       |              |               | 71          | 69           | 24-104          |            |     |      |
| Nitrobenzene-d5 (S)      | %.    |  |                      |              |               |                      |                       |              |               | 60          | 56           | 26-98           |            |     |      |
| p-Terphenyl-d14 (S)      | %.    |  |                      |              |               |                      |                       |              |               | 85          | 82           | 26-110          |            |     |      |
| Phenol-d5 (S)            | %.    |  |                      |              |               |                      |                       |              |               | 73          | 70           | 28-101          |            |     |      |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

QC Batch: OEXT/36216

Analysis Method: EPA 8270

QC Batch Method: EPA 3546

Analysis Description: 8270 Solid MSSV Microwave Short Spike

Associated Lab Samples: 5099627010, 5099627011, 5099627012

METHOD BLANK: 1116664

Matrix: Solid

Associated Lab Samples: 5099627010, 5099627011, 5099627012

| Parameter                       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------|-------|--------------|-----------------|----------------|------------|
| 2,4,5-Trichlorophenol           | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2,4,6-Trichlorophenol           | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2,4-Dichlorophenol              | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2,4-Dimethylphenol              | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2,4-Dinitrophenol               | ug/kg | ND           | 1600            | 06/25/14 12:34 |            |
| 2,4-Dinitrotoluene              | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2,6-Dinitrotoluene              | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2-Chloronaphthalene             | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2-Chlorophenol                  | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2-Methylnaphthalene             | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2-Methylphenol(o-Cresol)        | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2-Nitroaniline                  | ug/kg | ND           | 1600            | 06/25/14 12:34 |            |
| 2-Nitrophenol                   | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 3&4-Methylphenol(m&p Cresol)    | ug/kg | ND           | 660             | 06/25/14 12:34 |            |
| 3,3'-Dichlorobenzidine          | ug/kg | ND           | 660             | 06/25/14 12:34 |            |
| 3-Nitroaniline                  | ug/kg | ND           | 1600            | 06/25/14 12:34 |            |
| 4,6-Dinitro-2-methylphenol      | ug/kg | ND           | 1600            | 06/25/14 12:34 |            |
| 4-Bromophenylphenyl ether       | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 4-Chloro-3-methylphenol         | ug/kg | ND           | 660             | 06/25/14 12:34 |            |
| 4-Chloroaniline                 | ug/kg | ND           | 660             | 06/25/14 12:34 |            |
| 4-Chlorophenylphenyl ether      | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 4-Nitroaniline                  | ug/kg | ND           | 1600            | 06/25/14 12:34 |            |
| 4-Nitrophenol                   | ug/kg | ND           | 1600            | 06/25/14 12:34 |            |
| Acenaphthene                    | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Acenaphthylene                  | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Anthracene                      | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Benzo(a)anthracene              | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Benzo(a)pyrene                  | ug/kg | ND           | 170             | 06/25/14 12:34 |            |
| Benzo(b)fluoranthene            | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Benzo(g,h,i)perylene            | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Benzo(k)fluoranthene            | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Benzyl alcohol                  | ug/kg | ND           | 660             | 06/25/14 12:34 |            |
| bis(2-Chloroethoxy)methane      | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| bis(2-Chloroethyl) ether        | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| bis(2-Ethylhexyl)phthalate      | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| bis(2chloro1 methylethyl) ether | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Butylbenzylphthalate            | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Chrysene                        | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Di-n-butylphthalate             | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Di-n-octylphthalate             | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Dibenz(a,h)anthracene           | ug/kg | ND           | 170             | 06/25/14 12:34 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

METHOD BLANK: 1116664

Matrix: Solid

Associated Lab Samples: 5099627010, 5099627011, 5099627012

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Dibenzofuran               | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Diethylphthalate           | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Dimethylphthalate          | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Fluoranthene               | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Fluorene                   | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Hexachloro-1,3-butadiene   | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Hexachlorobenzene          | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Hexachlorocyclopentadiene  | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Hexachloroethane           | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Isophorone                 | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| N-Nitroso-di-n-propylamine | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| N-Nitrosodiphenylamine     | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Naphthalene                | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Nitrobenzene               | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Pentachlorophenol          | ug/kg | ND           | 1600            | 06/25/14 12:34 |            |
| Phenanthrene               | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Phenol                     | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| Pyrene                     | ug/kg | ND           | 330             | 06/25/14 12:34 |            |
| 2,4,6-Tribromophenol (S)   | %     | 80           | 16-122          | 06/25/14 12:34 |            |
| 2-Fluorobiphenyl (S)       | %     | 76           | 31-94           | 06/25/14 12:34 |            |
| 2-Fluorophenol (S)         | %     | 80           | 24-104          | 06/25/14 12:34 |            |
| Nitrobenzene-d5 (S)        | %     | 77           | 28-101          | 06/25/14 12:34 |            |
| p-Terphenyl-d14 (S)        | %     | 106          | 26-110          | 06/25/14 12:34 |            |
| Phenol-d5 (S)              | %     | 79           | 28-101          | 06/25/14 12:34 |            |

LABORATORY CONTROL SAMPLE: 1116665

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,4-Dinitrotoluene      | ug/kg | 3330        | 2580       | 77        | 39-103       |            |
| 2-Chlorophenol          | ug/kg | 3330        | 2370       | 71        | 38-96        |            |
| 2-Methylnaphthalene     | ug/kg | 3330        | 2340       | 70        | 36-94        |            |
| 4-Chloro-3-methylphenol | ug/kg | 3330        | 2420       | 73        | 38-104       |            |
| 4-Nitrophenol           | ug/kg | 3330        | 2330       | 70        | 34-104       |            |
| Acenaphthene            | ug/kg | 3330        | 2420       | 73        | 43-99        |            |
| Acenaphthylene          | ug/kg | 3330        | 2440       | 73        | 42-101       |            |
| Anthracene              | ug/kg | 3330        | 2560       | 77        | 46-107       |            |
| Benzo(a)anthracene      | ug/kg | 3330        | 2620       | 79        | 45-108       |            |
| Benzo(a)pyrene          | ug/kg | 3330        | 2690       | 81        | 47-113       |            |
| Benzo(b)fluoranthene    | ug/kg | 3330        | 2410       | 72        | 41-110       |            |
| Benzo(g,h,i)perylene    | ug/kg | 3330        | 2660       | 80        | 42-112       |            |
| Benzo(k)fluoranthene    | ug/kg | 3330        | 2710       | 81        | 44-107       |            |
| Chrysene                | ug/kg | 3330        | 2720       | 81        | 43-103       |            |
| Dibenz(a,h)anthracene   | ug/kg | 3330        | 2710       | 81        | 43-110       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

LABORATORY CONTROL SAMPLE: 1116665

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Fluoranthene               | ug/kg | 3330        | 2650       | 79        | 45-105       |            |
| Fluorene                   | ug/kg | 3330        | 2550       | 76        | 42-103       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 3330        | 2650       | 80        | 43-111       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 3330        | 2370       | 71        | 37-96        |            |
| Naphthalene                | ug/kg | 3330        | 2280       | 68        | 44-100       |            |
| Pentachlorophenol          | ug/kg | 3330        | 1910       | 57        | 21-103       |            |
| Phenanthrene               | ug/kg | 3330        | 2500       | 75        | 44-104       |            |
| Phenol                     | ug/kg | 3330        | 2410       | 72        | 37-101       |            |
| Pyrene                     | ug/kg | 3330        | 2670       | 80        | 44-105       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 73        | 16-122       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 70        | 31-94        |            |
| 2-Fluorophenol (S)         | %     |             |            | 71        | 24-104       |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 68        | 28-101       |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 90        | 26-110       |            |
| Phenol-d5 (S)              | %     |             |            | 73        | 28-101       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1116666 1116667

| Parameter                  | Units | MS                |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |            |
|----------------------------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
|                            |       | 5099627011 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      | MSD Result |
| 2,4-Dinitrotoluene         | ug/kg | ND                | 3660        | 3630        | 2640      | 2620     | 72        | 72           | 15-102 | 1       | 20   |            |
| 2-Chlorophenol             | ug/kg | ND                | 3660        | 3630        | 2330      | 2380     | 64        | 65           | 22-96  | 2       | 20   |            |
| 2-Methylnaphthalene        | ug/kg | ND                | 3660        | 3630        | 2320      | 2390     | 63        | 66           | 14-107 | 3       | 20   |            |
| 4-Chloro-3-methylphenol    | ug/kg | ND                | 3660        | 3630        | 2500      | 2360     | 68        | 65           | 21-105 | 6       | 20   |            |
| 4-Nitrophenol              | ug/kg | ND                | 3660        | 3630        | 2570      | 2690     | 70        | 74           | 12-107 | 5       | 20   |            |
| Acenaphthene               | ug/kg | ND                | 3660        | 3630        | 2420      | 2400     | 66        | 66           | 19-110 | 1       | 20   |            |
| Acenaphthylene             | ug/kg | ND                | 3660        | 3630        | 2450      | 2410     | 67        | 66           | 21-106 | 1       | 20   |            |
| Anthracene                 | ug/kg | ND                | 3660        | 3630        | 2530      | 2410     | 69        | 66           | 22-112 | 5       | 20   |            |
| Benzo(a)anthracene         | ug/kg | ND                | 3660        | 3630        | 2470      | 2400     | 68        | 66           | 13-116 | 3       | 20   |            |
| Benzo(a)pyrene             | ug/kg | ND                | 3660        | 3630        | 2510      | 2460     | 69        | 68           | 11-119 | 2       | 20   |            |
| Benzo(b)fluoranthene       | ug/kg | ND                | 3660        | 3630        | 2300      | 2240     | 63        | 62           | 10-126 | 2       | 20   |            |
| Benzo(g,h,i)perylene       | ug/kg | ND                | 3660        | 3630        | 2430      | 2330     | 66        | 64           | 10-114 | 4       | 20   |            |
| Benzo(k)fluoranthene       | ug/kg | ND                | 3660        | 3630        | 2500      | 2480     | 68        | 68           | 10-117 | 1       | 20   |            |
| Chrysene                   | ug/kg | ND                | 3660        | 3630        | 2550      | 2490     | 70        | 69           | 14-107 | 2       | 20   |            |
| Dibenz(a,h)anthracene      | ug/kg | ND                | 3660        | 3630        | 2510      | 2390     | 69        | 66           | 10-119 | 5       | 20   |            |
| Fluoranthene               | ug/kg | ND                | 3660        | 3630        | 2600      | 2530     | 71        | 70           | 17-110 | 3       | 20   |            |
| Fluorene                   | ug/kg | ND                | 3660        | 3630        | 2540      | 2490     | 69        | 68           | 17-115 | 2       | 20   |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND                | 3660        | 3630        | 2430      | 2360     | 66        | 65           | 11-111 | 3       | 20   |            |
| N-Nitroso-di-n-propylamine | ug/kg | ND                | 3660        | 3630        | 2440      | 2560     | 67        | 70           | 18-103 | 5       | 20   |            |
| Naphthalene                | ug/kg | ND                | 3660        | 3630        | 2260      | 2350     | 62        | 65           | 16-102 | 4       | 20   |            |
| Pentachlorophenol          | ug/kg | ND                | 3660        | 3630        | 2270      | 2340     | 62        | 64           | 10-100 | 3       | 20   |            |
| Phenanthrene               | ug/kg | ND                | 3660        | 3630        | 2480      | 2410     | 68        | 66           | 10-128 | 3       | 20   |            |
| Phenol                     | ug/kg | ND                | 3660        | 3630        | 2390      | 2470     | 65        | 68           | 22-97  | 3       | 20   |            |
| Pyrene                     | ug/kg | ND                | 3660        | 3630        | 2610      | 2540     | 71        | 70           | 10-123 | 3       | 20   |            |
| 2,4,6-Tribromophenol (S)   | %     |                   |             |             |           |          | 72        | 72           | 16-122 |         |      |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: |       | 1116666              |                | 1116667        |              |               |             |              |        |       |        |     |            |      |
|--|-------|----------------------|----------------|----------------|--------------|---------------|-------------|--------------|--------|-------|--------|-----|------------|------|
| Parameter                              | Units | 5099627011<br>Result | MS             | MSD            | MS<br>Result | MSD           | MS<br>% Rec | MSD          | % Rec  | % Rec | Limits | RPD | Max<br>RPD | Qual |
|  |       |                      | Spike<br>Conc. | Spike<br>Conc. |              | MSD<br>Result |             | MSD<br>% Rec |        |       |        |     |            |      |
| 2-Fluorobiphenyl (S)                   | %.    |                      |                |                |              |               | 65          | 67           | 31-94  |       |        |     |            |      |
| 2-Fluorophenol (S)                     | %.    |                      |                |                |              |               | 65          | 72           | 24-104 |       |        |     |            |      |
| Nitrobenzene-d5 (S)                    | %.    |                      |                |                |              |               | 63          | 70           | 26-98  |       |        |     |            |      |
| p-Terphenyl-d14 (S)                    | %.    |                      |                |                |              |               | 85          | 85           | 26-110 |       |        |     |            |      |
| Phenol-d5 (S)                          | %.    |                      |                |                |              |               | 66          | 75           | 28-101 |       |        |     |            |      |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

QC Batch: OEXT/36221

Analysis Method: EPA 8270

QC Batch Method: EPA 3546

Analysis Description: 8270 Solid MSSV Microwave Short Spike

Associated Lab Samples: 5099627014, 5099627015, 5099627016, 5099627017, 5099627018

METHOD BLANK: 1117083

Matrix: Solid

Associated Lab Samples: 5099627014, 5099627015, 5099627016, 5099627017, 5099627018

| Parameter                       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------|-------|--------------|-----------------|----------------|------------|
| 2,4,5-Trichlorophenol           | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2,4,6-Trichlorophenol           | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2,4-Dichlorophenol              | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2,4-Dimethylphenol              | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2,4-Dinitrophenol               | ug/kg | ND           | 1600            | 06/26/14 01:00 |            |
| 2,4-Dinitrotoluene              | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2,6-Dinitrotoluene              | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2-Chloronaphthalene             | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2-Chlorophenol                  | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2-Methylnaphthalene             | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2-Methylphenol(o-Cresol)        | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2-Nitroaniline                  | ug/kg | ND           | 1600            | 06/26/14 01:00 |            |
| 2-Nitrophenol                   | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 3&4-Methylphenol(m&p Cresol)    | ug/kg | ND           | 660             | 06/26/14 01:00 |            |
| 3,3'-Dichlorobenzidine          | ug/kg | ND           | 660             | 06/26/14 01:00 |            |
| 3-Nitroaniline                  | ug/kg | ND           | 1600            | 06/26/14 01:00 |            |
| 4,6-Dinitro-2-methylphenol      | ug/kg | ND           | 1600            | 06/26/14 01:00 |            |
| 4-Bromophenylphenyl ether       | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 4-Chloro-3-methylphenol         | ug/kg | ND           | 660             | 06/26/14 01:00 |            |
| 4-Chloroaniline                 | ug/kg | ND           | 660             | 06/26/14 01:00 |            |
| 4-Chlorophenylphenyl ether      | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 4-Nitroaniline                  | ug/kg | ND           | 1600            | 06/26/14 01:00 |            |
| 4-Nitrophenol                   | ug/kg | ND           | 1600            | 06/26/14 01:00 |            |
| Acenaphthene                    | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Acenaphthylene                  | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Anthracene                      | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Benzo(a)anthracene              | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Benzo(a)pyrene                  | ug/kg | ND           | 170             | 06/26/14 01:00 |            |
| Benzo(b)fluoranthene            | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Benzo(g,h,i)perylene            | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Benzo(k)fluoranthene            | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Benzyl alcohol                  | ug/kg | ND           | 660             | 06/26/14 01:00 |            |
| bis(2-Chloroethoxy)methane      | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| bis(2-Chloroethyl) ether        | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| bis(2-Ethylhexyl)phthalate      | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| bis(2chloro1 methylethyl) ether | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Butylbenzylphthalate            | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Chrysene                        | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Di-n-butylphthalate             | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Di-n-octylphthalate             | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Dibenz(a,h)anthracene           | ug/kg | ND           | 170             | 06/26/14 01:00 |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

METHOD BLANK: 1117083

Matrix: Solid

Associated Lab Samples: 5099627014, 5099627015, 5099627016, 5099627017, 5099627018

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Dibenzofuran               | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Diethylphthalate           | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Dimethylphthalate          | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Fluoranthene               | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Fluorene                   | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Hexachloro-1,3-butadiene   | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Hexachlorobenzene          | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Hexachlorocyclopentadiene  | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Hexachloroethane           | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Isophorone                 | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| N-Nitroso-di-n-propylamine | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| N-Nitrosodiphenylamine     | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Naphthalene                | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Nitrobenzene               | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Pentachlorophenol          | ug/kg | ND           | 1600            | 06/26/14 01:00 |            |
| Phenanthrene               | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Phenol                     | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| Pyrene                     | ug/kg | ND           | 330             | 06/26/14 01:00 |            |
| 2,4,6-Tribromophenol (S)   | %     | 78           | 16-122          | 06/26/14 01:00 |            |
| 2-Fluorobiphenyl (S)       | %     | 66           | 31-94           | 06/26/14 01:00 |            |
| 2-Fluorophenol (S)         | %     | 73           | 24-104          | 06/26/14 01:00 |            |
| Nitrobenzene-d5 (S)        | %     | 68           | 28-101          | 06/26/14 01:00 |            |
| p-Terphenyl-d14 (S)        | %     | 96           | 26-110          | 06/26/14 01:00 |            |
| Phenol-d5 (S)              | %     | 76           | 28-101          | 06/26/14 01:00 |            |

LABORATORY CONTROL SAMPLE: 1117084

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,4-Dinitrotoluene      | ug/kg | 3330        | 2320       | 70        | 39-103       |            |
| 2-Chlorophenol          | ug/kg | 3330        | 2320       | 69        | 38-96        |            |
| 2-Methylnaphthalene     | ug/kg | 3330        | 2310       | 69        | 36-94        |            |
| 4-Chloro-3-methylphenol | ug/kg | 3330        | 2560       | 77        | 38-104       |            |
| 4-Nitrophenol           | ug/kg | 3330        | 2250       | 68        | 34-104       |            |
| Acenaphthene            | ug/kg | 3330        | 2380       | 72        | 43-99        |            |
| Acenaphthylene          | ug/kg | 3330        | 2380       | 71        | 42-101       |            |
| Anthracene              | ug/kg | 3330        | 2620       | 79        | 46-107       |            |
| Benzo(a)anthracene      | ug/kg | 3330        | 2660       | 80        | 45-108       |            |
| Benzo(a)pyrene          | ug/kg | 3330        | 2760       | 83        | 47-113       |            |
| Benzo(b)fluoranthene    | ug/kg | 3330        | 2600       | 78        | 41-110       |            |
| Benzo(g,h,i)perylene    | ug/kg | 3330        | 2650       | 80        | 42-112       |            |
| Benzo(k)fluoranthene    | ug/kg | 3330        | 2640       | 79        | 44-107       |            |
| Chrysene                | ug/kg | 3330        | 2710       | 81        | 43-103       |            |
| Dibenz(a,h)anthracene   | ug/kg | 3330        | 2750       | 82        | 43-110       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

LABORATORY CONTROL SAMPLE: 1117084

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Fluoranthene               | ug/kg | 3330        | 2780       | 83        | 45-105       |            |
| Fluorene                   | ug/kg | 3330        | 2550       | 76        | 42-103       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 3330        | 2670       | 80        | 43-111       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 3330        | 2410       | 72        | 37-96        |            |
| Naphthalene                | ug/kg | 3330        | 2170       | 65        | 44-100       |            |
| Pentachlorophenol          | ug/kg | 3330        | 2190       | 66        | 21-103       |            |
| Phenanthrene               | ug/kg | 3330        | 2560       | 77        | 44-104       |            |
| Phenol                     | ug/kg | 3330        | 2390       | 72        | 37-101       |            |
| Pyrene                     | ug/kg | 3330        | 2760       | 83        | 44-105       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 82        | 16-122       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 67        | 31-94        |            |
| 2-Fluorophenol (S)         | %     |             |            | 69        | 24-104       |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 66        | 28-101       |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 95        | 26-110       |            |
| Phenol-d5 (S)              | %     |             |            | 71        | 28-101       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117085 1117086

| Parameter                  | Units | 5099682003 |             | MSD         |        | MS     |       | MSD   |        | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|-----|---------|------|
|                            |       | Result     | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec |        |              |     |         |      |
| 2,4-Dinitrotoluene         | ug/kg | ND         | 3850        | 3880        | 2430   | 2630   | 63    | 68    | 15-102 | 8            | 20  |         |      |
| 2-Chlorophenol             | ug/kg | ND         | 3850        | 3880        | 2520   | 2840   | 65    | 73    | 22-96  | 12           | 20  |         |      |
| 2-Methylnaphthalene        | ug/kg | 0.89 mg/kg | 3850        | 3880        | 3570   | 3140   | 70    | 58    | 14-107 | 13           | 20  |         |      |
| 4-Chloro-3-methylphenol    | ug/kg | ND         | 3850        | 3880        | 2720   | 3090   | 71    | 80    | 21-105 | 13           | 20  |         |      |
| 4-Nitrophenol              | ug/kg | ND         | 3850        | 3880        | 2750   | 3140   | 72    | 81    | 12-107 | 13           | 20  |         |      |
| Acenaphthene               | ug/kg | ND         | 3850        | 3880        | 2610   | 2790   | 68    | 72    | 19-110 | 7            | 20  |         |      |
| Acenaphthylene             | ug/kg | ND         | 3850        | 3880        | 2670   | 2830   | 68    | 72    | 21-106 | 6            | 20  |         |      |
| Anthracene                 | ug/kg | ND         | 3850        | 3880        | 2700   | 2980   | 69    | 75    | 22-112 | 10           | 20  |         |      |
| Benzo(a)anthracene         | ug/kg | ND         | 3850        | 3880        | 2700   | 2760   | 68    | 69    | 13-116 | 2            | 20  |         |      |
| Benzo(a)pyrene             | ug/kg | ND         | 3850        | 3880        | 2580   | 2760   | 65    | 69    | 11-119 | 7            | 20  |         |      |
| Benzo(b)fluoranthene       | ug/kg | ND         | 3850        | 3880        | 2810   | 2530   | 70    | 62    | 10-126 | 11           | 20  |         |      |
| Benzo(g,h,i)perylene       | ug/kg | ND         | 3850        | 3880        | 2280   | 2480   | 57    | 62    | 10-114 | 9            | 20  |         |      |
| Benzo(k)fluoranthene       | ug/kg | ND         | 3850        | 3880        | 2450   | 2910   | 61    | 72    | 10-117 | 17           | 20  |         |      |
| Chrysene                   | ug/kg | ND         | 3850        | 3880        | 2810   | 2890   | 70    | 71    | 14-107 | 3            | 20  |         |      |
| Dibenz(a,h)anthracene      | ug/kg | ND         | 3850        | 3880        | 2490   | 2720   | 65    | 70    | 10-119 | 9            | 20  |         |      |
| Fluoranthene               | ug/kg | ND         | 3850        | 3880        | 2860   | 3010   | 71    | 74    | 17-110 | 5            | 20  |         |      |
| Fluorene                   | ug/kg | ND         | 3850        | 3880        | 2770   | 3000   | 72    | 77    | 17-115 | 8            | 20  |         |      |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND         | 3850        | 3880        | 2370   | 2540   | 60    | 64    | 11-111 | 7            | 20  |         |      |
| N-Nitroso-di-n-propylamine | ug/kg | ND         | 3850        | 3880        | 2670   | 2960   | 69    | 76    | 18-103 | 10           | 20  |         |      |
| Naphthalene                | ug/kg | 0.63 mg/kg | 3850        | 3880        | 3150   | 2940   | 65    | 59    | 16-102 | 7            | 20  |         |      |
| Pentachlorophenol          | ug/kg | ND         | 3850        | 3880        | 2260   | 2480   | 59    | 64    | 10-100 | 9            | 20  |         |      |
| Phenanthrene               | ug/kg | ND         | 3850        | 3880        | 2950   | 3020   | 68    | 69    | 10-128 | 2            | 20  |         |      |
| Phenol                     | ug/kg | ND         | 3850        | 3880        | 2610   | 2950   | 68    | 76    | 22-97  | 12           | 20  |         |      |
| Pyrene                     | ug/kg | ND         | 3850        | 3880        | 2920   | 3030   | 72    | 74    | 10-123 | 4            | 20  |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 5099627

| Parameter                | Units | 1117085              |                      | 1117086               |              | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
|--------------------------|-------|----------------------|----------------------|-----------------------|--------------|-------------|--------------|-----------------|------------|-----|------|
|                          |       | 5099682003<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |             |              |                 |            |     |      |
| 2,4,6-Tribromophenol (S) | %.    |                      |                      |                       |              | 70          | 76           | 16-122          |            |     |      |
| 2-Fluorobiphenyl (S)     | %.    |                      |                      |                       |              | 62          | 66           | 31-94           |            |     |      |
| 2-Fluorophenol (S)       | %.    |                      |                      |                       |              | 65          | 71           | 24-104          |            |     |      |
| Nitrobenzene-d5 (S)      | %.    |                      |                      |                       |              | 63          | 69           | 26-98           |            |     |      |
| p-Terphenyl-d14 (S)      | %.    |                      |                      |                       |              | 83          | 87           | 26-110          |            |     |      |
| Phenol-d5 (S)            | %.    |                      |                      |                       |              | 69          | 77           | 28-101          |            |     |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast  
Pace Project No.: 5099627

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QC Batch: PMST/9612                                      Analysis Method: ASTM D2974-87  
QC Batch Method: ASTM D2974-87                      Analysis Description: Dry Weight/Percent Moisture  
Associated Lab Samples: 5099627001, 5099627002, 5099627003, 5099627004, 5099627005, 5099627006

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SAMPLE DUPLICATE: 1117967

| Parameter        | Units | 5099874001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 2.2                  | 1.8           | 18  | 5          | R1         |

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SAMPLE DUPLICATE: 1117968

| Parameter        | Units | 5099627006<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 14.3                 | 14.1          | 2   | 5          |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Sibley - Accucast  
Pace Project No.: 5099627

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|                         |  |                       |                             |
|-------------------------|--|-----------------------|-----------------------------|
| QC Batch:               | PMST/9613  | Analysis Method:      | ASTM D2974-87               |
| QC Batch Method:        | ASTM D2974-87  | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 5099627007, 5099627008, 5099627009, 5099627010, 5099627011, 5099627012, 5099627014, 5099627015, 5099627016, 5099627017, 5099627018 |                       |                             |

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SAMPLE DUPLICATE: 1117969

| Parameter        | Units | 5099627007<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 14.6                 | 13.7          | 6   | 5          | R1         |

SAMPLE DUPLICATE: 1117970

| Parameter        | Units | 5099642009<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 14.1                 | 14.4          | 2   | 5          |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Sibley - Accucast

Pace Project No.: 5099627

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- |    |   |
|----|---|
| 1d | Due to the extract's physical characteristics, the analysis was performed at dilution.SN.06/24/14                                     |
| M3 | Matrix spike recovery was outside laboratory control limits due to matrix interferences.  |
| N2 | The lab does not hold TNI accreditation for this parameter.   |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level. |
| R1 | RPD value was outside control limits.   |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sibley - Accucast  
Pace Project No.: 5099627

| Lab ID     | Sample ID     | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|------------|---------------|-----------------|------------|-------------------|------------------|
| 5099627001 | P-8 (6-8)     | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627002 | TMW-7 (8-10)  | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627003 | P-8 (16-18)   | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627004 | P-4 (16-18)   | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627005 | TMW-9 (3-5)   | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627006 | TMW-3 (15-16) | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627007 | TMW-9 (16-18) | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627008 | P-7 (13-15)   | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627009 | P-3 (16-18)   | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627010 | TMW-7 (14-16) | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627011 | P-4 (5-7)     | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627012 | P-7 (5-7)     | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627014 | TMW-3 (8-9)   | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627015 | P-9 (2-4)     | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627016 | P-3 (8-10)    | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627017 | P-9 (13-15)   | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627018 | Surf-Dupe     | EPA 3546        | OEXT/36210 | EPA 8082          | GCSV/12741       |
| 5099627001 | P-8 (6-8)     | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627002 | TMW-7 (8-10)  | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627003 | P-8 (16-18)   | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627004 | P-4 (16-18)   | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627005 | TMW-9 (3-5)   | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627006 | TMW-3 (15-16) | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627007 | TMW-9 (16-18) | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627008 | P-7 (13-15)   | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627009 | P-3 (16-18)   | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627010 | TMW-7 (14-16) | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627011 | P-4 (5-7)     | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627012 | P-7 (5-7)     | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627014 | TMW-3 (8-9)   | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627015 | P-9 (2-4)     | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627016 | P-3 (8-10)    | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627017 | P-9 (13-15)   | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627018 | Surf-Dupe     | EPA 3050        | MPRP/13625 | EPA 6010          | ICP/15863        |
| 5099627001 | P-8 (6-8)     | EPA 3546        | OEXT/36200 | EPA 8270          | MSSV/15562       |
| 5099627002 | TMW-7 (8-10)  | EPA 3546        | OEXT/36200 | EPA 8270          | MSSV/15562       |
| 5099627003 | P-8 (16-18)   | EPA 3546        | OEXT/36200 | EPA 8270          | MSSV/15562       |
| 5099627004 | P-4 (16-18)   | EPA 3546        | OEXT/36200 | EPA 8270          | MSSV/15562       |
| 5099627005 | TMW-9 (3-5)   | EPA 3546        | OEXT/36200 | EPA 8270          | MSSV/15562       |
| 5099627006 | TMW-3 (15-16) | EPA 3546        | OEXT/36200 | EPA 8270          | MSSV/15562       |
| 5099627007 | TMW-9 (16-18) | EPA 3546        | OEXT/36200 | EPA 8270          | MSSV/15562       |
| 5099627008 | P-7 (13-15)   | EPA 3546        | OEXT/36200 | EPA 8270          | MSSV/15562       |
| 5099627009 | P-3 (16-18)   | EPA 3546        | OEXT/36200 | EPA 8270          | MSSV/15562       |
| 5099627010 | TMW-7 (14-16) | EPA 3546        | OEXT/36216 | EPA 8270          | MSSV/15571       |
| 5099627011 | P-4 (5-7)     | EPA 3546        | OEXT/36216 | EPA 8270          | MSSV/15571       |
| 5099627012 | P-7 (5-7)     | EPA 3546        | OEXT/36216 | EPA 8270          | MSSV/15571       |
| 5099627014 | TMW-3 (8-9)   | EPA 3546        | OEXT/36221 | EPA 8270          | MSSV/15575       |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sibley - Accucast

Pace Project No.: 5099627

| Lab ID     | Sample ID     | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|------------|---------------|-----------------|------------|-------------------|------------------|
| 5099627015 | P-9 (2-4)     | EPA 3546        | OEXT/36221 | EPA 8270          | MSSV/15575       |
| 5099627016 | P-3 (8-10)    | EPA 3546        | OEXT/36221 | EPA 8270          | MSSV/15575       |
| 5099627017 | P-9 (13-15)   | EPA 3546        | OEXT/36221 | EPA 8270          | MSSV/15575       |
| 5099627018 | Surf-Dupe     | EPA 3546        | OEXT/36221 | EPA 8270          | MSSV/15575       |
| 5099627001 | P-8 (6-8)     | EPA 8260        | MSV/66379  |                   |                  |
| 5099627002 | TMW-7 (8-10)  | EPA 8260        | MSV/66379  |                   |                  |
| 5099627003 | P-8 (16-18)   | EPA 8260        | MSV/66379  |                   |                  |
| 5099627004 | P-4 (16-18)   | EPA 8260        | MSV/66379  |                   |                  |
| 5099627005 | TMW-9 (3-5)   | EPA 8260        | MSV/66420  |                   |                  |
| 5099627006 | TMW-3 (15-16) | EPA 8260        | MSV/66420  |                   |                  |
| 5099627007 | TMW-9 (16-18) | EPA 8260        | MSV/66420  |                   |                  |
| 5099627008 | P-7 (13-15)   | EPA 8260        | MSV/66420  |                   |                  |
| 5099627009 | P-3 (16-18)   | EPA 8260        | MSV/66420  |                   |                  |
| 5099627010 | TMW-7 (14-16) | EPA 8260        | MSV/66420  |                   |                  |
| 5099627011 | P-4 (5-7)     | EPA 8260        | MSV/66523  |                   |                  |
| 5099627012 | P-7 (5-7)     | EPA 8260        | MSV/66523  |                   |                  |
| 5099627014 | TMW-3 (8-9)   | EPA 8260        | MSV/66420  |                   |                  |
| 5099627015 | P-9 (2-4)     | EPA 8260        | MSV/66420  |                   |                  |
| 5099627016 | P-3 (8-10)    | EPA 8260        | MSV/66523  |                   |                  |
| 5099627017 | P-9 (13-15)   | EPA 8260        | MSV/66420  |                   |                  |
| 5099627018 | Surf-Dupe     | EPA 8260        | MSV/66438  |                   |                  |
| 5099627019 | Trip Blank    | EPA 8260        | MSV/66438  |                   |                  |
| 5099627001 | P-8 (6-8)     | ASTM D2974-87   | PMST/9612  |                   |                  |
| 5099627002 | TMW-7 (8-10)  | ASTM D2974-87   | PMST/9612  |                   |                  |
| 5099627003 | P-8 (16-18)   | ASTM D2974-87   | PMST/9612  |                   |                  |
| 5099627004 | P-4 (16-18)   | ASTM D2974-87   | PMST/9612  |                   |                  |
| 5099627005 | TMW-9 (3-5)   | ASTM D2974-87   | PMST/9612  |                   |                  |
| 5099627006 | TMW-3 (15-16) | ASTM D2974-87   | PMST/9612  |                   |                  |
| 5099627007 | TMW-9 (16-18) | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627008 | P-7 (13-15)   | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627009 | P-3 (16-18)   | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627010 | TMW-7 (14-16) | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627011 | P-4 (5-7)     | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627012 | P-7 (5-7)     | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627014 | TMW-3 (8-9)   | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627015 | P-9 (2-4)     | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627016 | P-3 (8-10)    | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627017 | P-9 (13-15)   | ASTM D2974-87   | PMST/9613  |                   |                  |
| 5099627018 | Surf-Dupe     | ASTM D2974-87   | PMST/9613  |                   |                  |

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A, B, C forms containing client and project information such as company name, address, contact details, and regulatory agency information.

Main data table with columns for Sample ID, Matrix Code, Collection Date/Time, Analysis Test, Preservatives, and Sample Conditions. Includes handwritten entries for sample IDs and collection dates.

Signature and verification section including 'SAMPLER NAME AND SIGNATURE', 'DATE SIGNED', and 'SAMPLE CONDITIONS'.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:  
 Company: Werner Bros Consultants  
 Address: 721 Grape Road  
Orange, IN 46530  
 Phone: 317-271-7947 Fax:  
 Requested Due Date/TAT:

**Section B**  
 Required Project Information:  
 Report To: Steve Stanford  
 Copy To: ahung@wernerbros.com  
 Purchase Order No.:  
 Project Name: Sibley - Accucast  
 Project Number: 2379-356-03-00

**Section C**  
 Invoice Information:  
 Attention: Cyle Cable  
 Company Name: Pace Analytical  
 Address: 7726 Mollen Rd.  
 Pace Quote Reference:  
 Pace Project Manager: Cyle Cable  
 Pace Profile #:

**Section D**  
 Required Client Information:  
 Matrix Codes  
 DW Drinking Water  
 WT Waste Water  
 WW Waste Water Product  
 P Soil/Solid  
 SL Oil  
 OL Wipe  
 WP Air  
 AR Tissue  
 TS Other  
 OT

**Section E**  
 Regulatory Agency  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
 Site Location: IN  
 STATE:

Page: 2 of 2  
 1804998

| ITEM # | SAMPLE ID<br>(A-Z, 0-9 / -) | Matrix Codes<br>MATRIX / CODE | COLLECTED                    |                                 | SAMPLE TYPE (G=GRAB C=COMP)<br>(see verif codes to left) | MATRIX CODE<br>(see verif codes to left) | # OF CONTAINERS | Preservatives<br>H <sub>2</sub> SO <sub>4</sub><br>HNO <sub>3</sub><br>HCl<br>NaOH<br>Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>Methanol<br>Other | Analysis Test ↑<br>V/N | Requested Analysis Filtered (Y/N) |      | Residual Chlorine (Y/N) |
|--------|-----------------------------|-------------------------------|------------------------------|---------------------------------|--|--|-----------------|--|------------------------|-----------------------------------|------|-------------------------|
|        |                             |                               | COMPOSITE START<br>DATE TIME | COMPOSITE END/GRAB<br>DATE TIME |  |  |                 |  |                        | DATE                              | TIME |                         |
| 1      | P-7 (5-7)                   |                               |                              | 6/19 11:50                      | G  | SL                                       | 6               |  | X                      |                                   |      |                         |
| 2      | TMM-2 (8-9)                 |                               |                              | 6/19 9:00                       | G  | SL                                       | 6               |  | X                      |                                   |      |                         |
| 3      | P-9 (2-4)                   |                               |                              | 6/19 15:00                      | G  | SL                                       | 6               |  | X                      |                                   |      |                         |
| 4      | P-3 (8-10)                  |                               |                              | 6/19 9:55                       | G  | SL                                       | 6               |  | X                      |                                   |      |                         |
| 5      | P-9 (13-15)                 |                               |                              | 6/19 15:10                      | G  | SL                                       | 6               |  | X                      |                                   |      |                         |
| 6      | Surf-Dupe                   |                               |                              | 6/19                            | G  | WT                                       | 6               |  | X                      |                                   |      |                         |
| 7      | Trip Blank                  |                               |                              |                                 |  |  | 3               |  | X                      |                                   |      |                         |
| 8      |                             |                               |                              |                                 |  |  |                 |  |                        |                                   |      |                         |
| 9      |                             |                               |                              |                                 |  |  |                 |  |                        |                                   |      |                         |
| 10     |                             |                               |                              |                                 |  |  |                 |  |                        |                                   |      |                         |
| 11     |                             |                               |                              |                                 |  |  |                 |  |                        |                                   |      |                         |
| 12     |                             |                               |                              |                                 |  |  |                 |  |                        |                                   |      |                         |

**Section F**  
 ADDITIONAL COMMENTS  
Hex Cr analysis only done Alex Hung/Werner Bros 8/19  
18:45 Drained from space 6/19/14 1042 1.9  
if authorized by project manager. Please retain samples.

**Section G**  
 RELINQUISHED BY / AFFILIATION  
 DATE TIME  
 ACCEPTED BY / AFFILIATION  
 DATE TIME  
 SAMPLE CONDITIONS

**Section H**  
 Temp in °C  
 Received on Ice (Y/N)  
 Custody Sealed Cooler (Y/N)  
 Samples Intact (Y/N)

**Section I**  
 SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Alex Hung  
 SIGNATURE of SAMPLER: Alex Hung  
 DATE Signed (MM/DD/YYYY): 06/19/14

F-ALL-Q-020 rev.07, 15-May-2007



**Sample Condition Upon Receipt**



Client Name: WEAVER BOOZ Project # 5099627

Masker

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other

Tracking #: 805 5144 5082

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Date/Time 5035A kits placed in freezer  
6/20/14 11:20

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used 12346 ABCDE Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Cooler Temperature 1.0, 1.0°C Ice Visible in Sample Containers:  yes  no

Temp should be above freezing to 6°C

Date and initials of person examining contents: 6/20/14 SJ

**Comments:**

|   |   |                                 |
|---|---|---------------------------------|
| Chain of Custody Present:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 1.                              |
| Chain of Custody Filled Out:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 2.                              |
| Chain of Custody Relinquished:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 3.                              |
| Sampler Name & Signature on COC:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 4.                              |
| Short Hold Time Analysis (<72hr):   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 5.                              |
| Rush Turn Around Time Requested:  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 6.                              |
| Containers Intact:  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 7. <u>See below</u>             |
| Sample Labels match COC:<br>-Includes date/time/ID/Analysis   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 8.                              |
| All containers needing acid/base pres. have been checked?<br>exceptions: VOA, coliform, TOC, O&G                                | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A            | 9. (Circle) HNO3 H2SO4 NaOH HCl |
| All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted. |   |                                 |
| Headspace in VOA Vials (>6mm):  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A            | 10.                             |
| Trip Blank Present:   | <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 11. <u>TERRA CORE TB</u>        |
| Trip Blank Custody Seals Present  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            |                                 |
| <b>Project Manager Review</b>   |   |                                 |
| Samples Arrived within Hold Time:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 12.                             |
| Sufficient Volume:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 13.                             |
| Correct Containers Used:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 14.                             |

**Client Notification/ Resolution:**

Person Contacted: STEVE STURD Date/Time: 6/9 12:04

Field Data Required? Y / N

**Comments/ Resolution:**

7) (1) P-8 (16-18) WGFU possible cooler water contamination  
(1) TMW-3 (15-16) WGFU possible cooler water contamination

PER STEVE, METALS LIST IS Sb, As, Co, Fe, Cr, Se, Ti, Pb

**Project Manager Review:**

*[Signature]*

Date: 6-20-14

# Sample Container Count



CLIENT: WEAVER BOOS

COC PAGE 1 of 2

COC ID# 1804997

Project # 5096A

*vt*

| Sample Line Item | DG9H | AG1U | WG9U | AG0U | R | 4/6 | BP2N | BP2U | BP2S | BP3N | BP3U | BP3S | AG3S | AG1H | BP3C | BP1U | SPST | pH < 2 | pH > 12 | Comments |  |
|------------------|------|------|------|------|---|-----|------|------|------|------|------|------|------|------|------|------|------|--------|---------|----------|--|
| 1                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 2                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 3                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 4                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 5                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 6                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 7                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 8                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 9                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 10               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 11               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |
| 12               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |        |         |          |  |

| Container Codes | DG9H                | AG1U                            | WG9U               | AG0U                          | AG1H                    | AG1S                      | AG1T                               | AG2N                   | AG2S                    | AG2U                          | AG3U                          | BG1H                    | BG1S                      | BG1T                               | BG1U                      | BP1A                           | BP1N                 | BP1S                  | BP1U                        | BP1Z                 | BP2A                         | BP2O               | BP2Z              | AF         | BP3C               | BP3Z                      | C             | DG9B                         | DG9M                 | DG9P                | DG9S                  | DG9T                    | DG9U                        | JGFU      | VG9H                       | VG9T      | VG9U                | VSG                      | WGFU                        | ZPLC                       |                            |            |
|-----------------|---------------------|---------------------------------|--------------------|-------------------------------|-------------------------|---------------------------|------------------------------------|------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------|---------------------------|------------------------------------|---------------------------|--------------------------------|----------------------|-----------------------|-----------------------------|----------------------|------------------------------|--------------------|-------------------|------------|--------------------|---------------------------|---------------|------------------------------|----------------------|---------------------|-----------------------|-------------------------|-----------------------------|-----------|----------------------------|-----------|---------------------|--------------------------|-----------------------------|----------------------------|----------------------------|------------|
|                 | 40mL HCL amber vial | 1 liter unpreserved amber glass | 4oz clear soil jar | 100mL unpreserved amber glass | 1 liter HCL amber glass | 1 liter H2SO4 amber glass | 1 liter Na Thiosulfate amber glass | 500mL HNO3 amber glass | 500mL H2SO4 amber glass | 500mL unpreserved amber glass | 250mL unpreserved amber glass | 1 liter HCL clear glass | 1 liter H2SO4 clear glass | 1 liter Na Thiosulfate clear glass | 1 liter unpreserved glass | 1 liter NaOH, Asc Acid plastic | 1 liter HNO3 plastic | 1 liter H2SO4 plastic | 1 liter unpreserved plastic | 1 liter NaOH, Zn, Ac | 500mL NaOH, Asc Acid plastic | 500mL NaOH plastic | 500mL NaOH, Zn Ac | Air Filter | 250mL NaOH plastic | 250mL NaOH, Zn Ac plastic | Air Cassettes | 40mL Na Bisulfate amber vial | 40mL MeOH clear vial | 40mL TSP amber vial | 40mL H2SO4 amber vial | 40mL Na Thio amber vial | 40mL unpreserved amber vial | Wipe/Swab | 4oz unpreserved amber wide | Summa Can | 40mL HCL clear vial | 40mL Na Thio. clear vial | 40mL unpreserved clear vial | Headspace septa vial & HCL | 4oz wide jar w/hexane wipe | Ziploc Bag |

Sample Container Count



CLIENT: WEAVER BOOS

COC PAGE 22 of 180498  
COC ID# 180498

Project # SOA627

Wub

| Sample Line Item | DG9H | AG1U | WGUFU | AG0U | R | 4/6 | BP2N | BP2U | BP2S | BP3N | BP3U | BP3S | AG3S | AG1H | BP3C | BP1U | SPST | pH <2 | pH >12 | Comments |                |
|------------------|------|------|-------|------|---|-----|------|------|------|------|------|------|------|------|------|------|------|-------|--------|----------|----------------|
| 1                |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          | SAME AS LINE 2 |
| 2                |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |
| 3                |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |
| 4                |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |
| 5                |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |
| 6                |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |
| 7                |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          | TB             |
| 8                |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |
| 9                |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |
| 10               |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |
| 11               |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |
| 12               |      |      |       |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |                |

| Container Codes | DG9H                        | 40mL HCL    | amber vial | AG0U                   | 100mL unpreserved | amber glass | BP1N                      | 1 liter HNO3 | plastic | DG9P                       | 40mL TSP   | amber vial |
|-----------------|-----------------------------|-------------|------------|------------------------|-------------------|-------------|---------------------------|--------------|---------|----------------------------|------------|------------|
| DG9H            | 40mL HCL                    | amber vial  | AG0U       | 100mL unpreserved      | amber glass       | BP1N        | 1 liter HNO3              | plastic      | DG9P    | 40mL TSP                   | amber vial |            |
| AG1U            | 1 liter unpreserved         | amber glass | AG1H       | 1 liter HCL            | amber glass       | BP1S        | 1 liter H2SO4             | plastic      | DG9S    | 40mL H2SO4                 | amber vial |            |
| WGUFU           | 4oz clear soil jar          |             | AG1S       | 1 liter H2SO4          | amber glass       | BP1U        | 1 liter unpreserved       | plastic      | DG9T    | 40mL Na Thio               | amber vial |            |
| R               | terra core kit              |             | AG1T       | 1 liter Na Thiosulfate | amber glass       | BP1Z        | 1 liter NaOH, Zn, Ac      |              | DG9U    | 40mL unpreserved           | amber vial |            |
| BP2N            | 500mL HNO3 plastic          |             | AG2N       | 500mL HNO3             | amber glass       | BP2A        | 500mL NaOH, Asc Acid      | plastic      |         | Wipe/Swab                  |            |            |
| BP2U            | 500mL unpreserved plastic   |             | AG2S       | 500mL H2SO4            | amber glass       | BP2O        | 500mL NaOH plastic        |              | JGFU    | 4oz unpreserved            | amber wide |            |
| BP2S            | 500mL H2SO4 plastic         |             | AG2U       | 500mL unpreserved      | amber glass       | BP2Z        | 500mL NaOH, Zn Ac         |              | U       | Summa Can                  |            |            |
| BP3N            | 250mL HNO3 plastic          |             | AG3U       | 250mL unpreserved      | amber glass       | AF          | Air Filter                |              | VG9H    | 40mL HCL                   | clear vial |            |
| BP3U            | 250mL unpreserved plastic   |             | BG1H       | 1 liter HCL            | clear glass       | BP3C        | 250mL NaOH plastic        |              | VG9T    | 40mL Na Thio.              | clear vial |            |
| BP3S            | 250mL H2SO4 plastic         |             | BG1S       | 1 liter H2SO4          | clear glass       | BP3Z        | 250mL NaOH, Zn Ac plastic |              | VG9U    | 40mL unpreserved           | clear vial |            |
| AG3S            | 250mL H2SO4 glass amber     |             | BG1T       | 1 liter Na Thiosulfate | clear glass       | C           | Air Cassettes             |              | VSG     | Headspace septa vial & HCL |            |            |
| AG1S            | 1 liter H2SO4 amber glass   |             | BG1U       | 1 liter unpreserved    | glass             | DG9B        | 40mL Na Bisulfate         | amber vial   | WGFU    | 4oz wide jar w/hexane wipe |            |            |
| BP1U            | 1 liter unpreserved plastic |             | BP1A       | 1 liter NaOH, Asc Acid | plastic           | DG9M        | 40mL MeOH                 | clear vial   | ZPLC    | Ziploc Bag                 |            |            |

July 08, 2014

Mr. Steve Stanford  
Weaver Boos & Gordon  
7121 Grape Road  
Granger, IN 46530

RE: Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

Dear Mr. Stanford:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lyle Cable  
lyle.cable@pacelabs.com  
Project Manager

Enclosures

cc: Mr. Alex Huang, Weaver Boos



## REPORT OF LABORATORY ANALYSIS

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Columbus, OH 43215  
(614)486-5421

**Pace Analytical Services, Inc.**  
7726 Moller Road  
Indianapolis, IN 46268  
(317)228-3100

## CERTIFICATIONS

Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

---

### Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268  
Illinois Certification #: 200074  
Indiana Certification #: C-49-06  
Kansas Certification #: E-10247

Kentucky UST Certification #: 0042  
Louisiana/NELAP Certification #: 04076  
Ohio VAP Certification #: CL-0065  
West Virginia Certification #: 330

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| Lab ID     | Sample ID     | Matrix | Date Collected | Date Received  |
|------------|---------------|--------|----------------|----------------|
| 5099688001 | TMW-5(12-14)  | Solid  | 06/20/14 13:20 | 06/21/14 10:54 |
| 5099688002 | TMW-5(2-4)    | Solid  | 06/20/14 12:45 | 06/21/14 10:54 |
| 5099688003 | TMW-4(14-16)  | Solid  | 06/20/14 12:45 | 06/21/14 10:54 |
| 5099688004 | TMW-4(5-7)    | Solid  | 06/20/14 11:55 | 06/21/14 10:54 |
| 5099688005 | P-5(10-12)    | Solid  | 06/20/14 11:05 | 06/21/14 10:54 |
| 5099688006 | P-5(2-4)      | Solid  | 06/20/14 10:50 | 06/21/14 10:54 |
| 5099688007 | TMW-6(14-16)  | Solid  | 06/20/14 10:30 | 06/21/14 10:54 |
| 5099688008 | TMW-6(2-4)    | Solid  | 06/20/14 10:00 | 06/21/14 10:54 |
| 5099688009 | P-6(10-12)    | Solid  | 06/20/14 09:36 | 06/21/14 10:54 |
| 5099688010 | P-6(2-4)      | Solid  | 06/20/14 09:15 | 06/21/14 10:54 |
| 5099688011 | P-3 RE(2-4)   | Solid  | 06/20/14 08:35 | 06/21/14 10:54 |
| 5099688012 | P-8 RE(0-2)   | Solid  | 06/20/14 08:45 | 06/21/14 10:54 |
| 5099688013 | SOIL EQ BLANK | Water  | 06/20/14 11:25 | 06/21/14 10:54 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| Lab ID     | Sample ID    | Method        | Analysts | Analytes Reported |
|------------|--------------|---------------|----------|-------------------|
| 5099688001 | TMW-5(12-14) | EPA 8082      | DMT      | 8                 |
|            |              | EPA 6010      | FRW      | 8                 |
|            |              | EPA 8270      | CEM      | 66                |
|            |              | EPA 8260      | JLZ      | 73                |
|            |              | ASTM D2974-87 | WDB      | 1                 |
| 5099688002 | TMW-5(2-4)   | EPA 8082      | DMT      | 8                 |
|            |              | EPA 6010      | FRW      | 8                 |
|            |              | EPA 8270      | CEM      | 66                |
|            |              | EPA 8260      | JLZ      | 73                |
|            |              | ASTM D2974-87 | WDB      | 1                 |
| 5099688003 | TMW-4(14-16) | EPA 8082      | DMT      | 8                 |
|            |              | EPA 6010      | FRW      | 8                 |
|            |              | EPA 8270      | CEM      | 66                |
|            |              | EPA 8260      | JLZ      | 73                |
|            |              | ASTM D2974-87 | WDB      | 1                 |
| 5099688004 | TMW-4(5-7)   | EPA 8082      | DMT      | 8                 |
|            |              | EPA 6010      | FRW      | 8                 |
|            |              | EPA 8270      | CEM      | 66                |
|            |              | EPA 8260      | JLZ      | 73                |
|            |              | ASTM D2974-87 | WDB      | 1                 |
| 5099688005 | P-5(10-12)   | EPA 8082      | DMT      | 8                 |
|            |              | EPA 6010      | FRW      | 8                 |
|            |              | EPA 8270      | CEM      | 66                |
|            |              | EPA 8260      | JLZ      | 73                |
|            |              | ASTM D2974-87 | WDB      | 1                 |
| 5099688006 | P-5(2-4)     | EPA 8082      | DMT      | 8                 |
|            |              | EPA 6010      | FRW      | 8                 |
|            |              | EPA 8270      | CEM      | 66                |
|            |              | EPA 8260      | JLZ      | 73                |
|            |              | ASTM D2974-87 | WDB      | 1                 |
| 5099688007 | TMW-6(14-16) | EPA 8082      | DMT      | 8                 |
|            |              | EPA 6010      | FRW      | 8                 |
|            |              | EPA 8270      | CEM      | 66                |
|            |              | EPA 8260      | JLZ      | 73                |
|            |              | ASTM D2974-87 | WDB      | 1                 |
| 5099688008 | TMW-6(2-4)   | EPA 8082      | DMT      | 8                 |
|            |              | EPA 6010      | FRW      | 8                 |

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### SAMPLE ANALYTE COUNT

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| Lab ID     | Sample ID     | Method        | Analysts | Analytes Reported |
|------------|---------------|---------------|----------|-------------------|
| 5099688009 | P-6(10-12)    | EPA 8270      | CEM      | 66                |
|            |               | EPA 8260      | JLZ      | 73                |
|            |               | ASTM D2974-87 | WDB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | CEM      | 66                |
| 5099688010 | P-6(2-4)      | EPA 8260      | JLZ      | 73                |
|            |               | ASTM D2974-87 | WDB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | CEM      | 66                |
|            |               | EPA 8260      | JLZ      | 73                |
| 5099688011 | P-3 RE(2-4)   | ASTM D2974-87 | WDB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | CEM      | 66                |
|            |               | ASTM D2974-87 | WDB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
| 5099688012 | P-8 RE(0-2)   | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | CEM      | 66                |
|            |               | ASTM D2974-87 | WDB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | FRW      | 8                 |
|            |               | EPA 8270      | CEM      | 66                |
| 5099688013 | SOIL EQ BLANK | ASTM D2974-87 | WDB      | 1                 |
|            |               | EPA 8082      | DMT      | 8                 |
|            |               | EPA 6010      | LLB      | 8                 |
|            |               | EPA 8270      | SN       | 66                |
|            |               | EPA 8260      | RSW      | 73                |
|            |               |               |          |                   |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-5(12-14)**      **Lab ID: 5099688001**      Collected: 06/20/14 13:20      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 00:26 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 00:26 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 00:26 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 00:26 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 00:26 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 00:26 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 00:26 | 11096-82-5 |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                 | 84 %.   |       | 30-106       | 1  | 06/26/14 11:14 | 06/27/14 00:26 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony   | ND      | mg/kg | 0.91         | 1  | 06/23/14 10:03 | 06/24/14 10:29 | 7440-36-0  |      |
| Arsenic  | 1.6     | mg/kg | 0.91         | 1  | 06/23/14 10:03 | 06/24/14 10:29 | 7440-38-2  |      |
| Chromium   | 2.6     | mg/kg | 0.91         | 1  | 06/23/14 10:03 | 06/24/14 10:29 | 7440-47-3  |      |
| Cobalt   | 1.2     | mg/kg | 0.91         | 1  | 06/23/14 10:03 | 06/24/14 10:29 | 7440-48-4  |      |
| Iron   | 2980    | mg/kg | 45.5         | 1  | 06/23/14 10:03 | 06/24/14 10:29 | 7439-89-6  |      |
| Lead   | 1.9     | mg/kg | 0.91         | 1  | 06/23/14 10:03 | 06/24/14 10:29 | 7439-92-1  |      |
| Selenium   | ND      | mg/kg | 0.91         | 1  | 06/23/14 10:03 | 06/24/14 10:29 | 7782-49-2  |      |
| Thallium   | 1.8     | mg/kg | 0.91         | 1  | 06/23/14 10:03 | 06/24/14 10:29 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                    |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 83-32-9    |      |
| Acenaphthylene   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 208-96-8   |      |
| Anthracene   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 120-12-7   |      |
| Benzo(a)anthracene                                       | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 56-55-3    |      |
| Benzo(a)pyrene   | ND      | ug/kg | 177          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 50-32-8    |      |
| Benzo(b)fluoranthene                                     | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                     | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 191-24-2   |      |
| Benzo(k)fluoranthene                                     | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 207-08-9   |      |
| Benzyl alcohol   | ND      | ug/kg | 688          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 101-55-3   |      |
| Butylbenzylphthalate                                     | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                  | ND      | ug/kg | 688          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 59-50-7    |      |
| 4-Chloroaniline  | ND      | ug/kg | 688          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                               | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                 | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                           | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 108-60-1   |      |
| 2-Chloronaphthalene                                      | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 91-58-7    |      |
| 2-Chlorophenol   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                               | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 7005-72-3  |      |
| Chrysene   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                    | ND      | ug/kg | 177          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 53-70-3    |      |
| Dibenzofuran   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                   | ND      | ug/kg | 688          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 91-94-1    |      |
| 2,4-Dichlorophenol                                       | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-5(12-14)**      **Lab ID: 5099688001**      Collected: 06/20/14 13:20      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 688          | 1  | 06/25/14 12:30 | 06/27/14 17:21 |           |      |
| Naphthalene                  | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 76 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 75 %.   |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 101 %.  |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 1718-51-0 |      |
| Phenol-d5 (S)                | 81 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 78 %.   |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 84 %.   |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 17:21 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-5(12-14)**      **Lab ID: 5099688001**      Collected: 06/20/14 13:20      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 102          | 1  |          | 07/02/14 18:11 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 102          | 1  |          | 07/02/14 18:11 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 102          | 1  |          | 07/02/14 18:11 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 25.4         | 1  |          | 07/02/14 18:11 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.2         | 1  |          | 07/02/14 18:11 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 102          | 1  |          | 07/02/14 18:11 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 102          | 1  |          | 07/02/14 18:11 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.1          | 1  |          | 07/02/14 18:11 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 102          | 1  |          | 07/02/14 18:11 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 102          | 1  |          | 07/02/14 18:11 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-5(12-14)**      **Lab ID: 5099688001**      Collected: 06/20/14 13:20      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 98-82-8   |      |
| p-Isopropyltoluene          | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 99-87-6   |      |
| Methylene Chloride          | ND      | ug/kg                            | 20.3         | 1  |          | 07/02/14 18:11 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/kg                            | 25.4         | 1  |          | 07/02/14 18:11 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 103-65-1  |      |
| Styrene                     | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 127-18-4  |      |
| Toluene                     | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/kg                            | 102          | 1  |          | 07/02/14 18:11 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/kg                            | 5.1          | 1  |          | 07/02/14 18:11 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/kg                            | 10.2         | 1  |          | 07/02/14 18:11 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 95 %    |                                  | 85-118       | 1  |          | 07/02/14 18:11 | 1868-53-7 |      |
| Toluene-d8 (S)              | 94 %    |                                  | 71-128       | 1  |          | 07/02/14 18:11 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 97 %    |                                  | 56-144       | 1  |          | 07/02/14 18:11 | 460-00-4  |      |
| <b>Percent Moisture</b>     |         | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | 4.7 %   |                                  | 0.10         | 1  |          | 06/26/14 11:50 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-5(2-4)**      **Lab ID: 5099688002**      Collected: 06/20/14 12:45      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8082 GCS PCB**

Analytical Method: EPA 8082      Preparation Method: EPA 3546

|                         |          |  |     |   |                |                |            |  |
|-------------------------|----------|--|-----|---|----------------|----------------|------------|--|
| PCB-1016 (Aroclor 1016) | ND ug/kg |  | 106 | 1 | 06/26/14 11:14 | 06/27/14 00:43 | 12674-11-2 |  |
| PCB-1221 (Aroclor 1221) | ND ug/kg |  | 106 | 1 | 06/26/14 11:14 | 06/27/14 00:43 | 11104-28-2 |  |
| PCB-1232 (Aroclor 1232) | ND ug/kg |  | 106 | 1 | 06/26/14 11:14 | 06/27/14 00:43 | 11141-16-5 |  |
| PCB-1242 (Aroclor 1242) | ND ug/kg |  | 106 | 1 | 06/26/14 11:14 | 06/27/14 00:43 | 53469-21-9 |  |
| PCB-1248 (Aroclor 1248) | ND ug/kg |  | 106 | 1 | 06/26/14 11:14 | 06/27/14 00:43 | 12672-29-6 |  |
| PCB-1254 (Aroclor 1254) | ND ug/kg |  | 106 | 1 | 06/26/14 11:14 | 06/27/14 00:43 | 11097-69-1 |  |
| PCB-1260 (Aroclor 1260) | ND ug/kg |  | 106 | 1 | 06/26/14 11:14 | 06/27/14 00:43 | 11096-82-5 |  |

**Surrogates**

|                          |       |  |        |   |                |                |          |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 89 %. |  | 30-106 | 1 | 06/26/14 11:14 | 06/27/14 00:43 | 877-09-8 |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010      Preparation Method: EPA 3050

|          |            |  |      |   |                |                |           |  |
|----------|------------|--|------|---|----------------|----------------|-----------|--|
| Antimony | ND mg/kg   |  | 1.1  | 1 | 06/23/14 10:03 | 06/24/14 10:39 | 7440-36-0 |  |
| Arsenic  | 2.5 mg/kg  |  | 1.1  | 1 | 06/23/14 10:03 | 06/24/14 10:39 | 7440-38-2 |  |
| Chromium | 9.1 mg/kg  |  | 1.1  | 1 | 06/23/14 10:03 | 06/24/14 10:39 | 7440-47-3 |  |
| Cobalt   | 2.7 mg/kg  |  | 1.1  | 1 | 06/23/14 10:03 | 06/24/14 10:39 | 7440-48-4 |  |
| Iron     | 9120 mg/kg |  | 53.1 | 1 | 06/23/14 10:03 | 06/24/14 10:39 | 7439-89-6 |  |
| Lead     | 9.4 mg/kg  |  | 1.1  | 1 | 06/23/14 10:03 | 06/24/14 10:39 | 7439-92-1 |  |
| Selenium | ND mg/kg   |  | 1.1  | 1 | 06/23/14 10:03 | 06/24/14 10:39 | 7782-49-2 |  |
| Thallium | 2.9 mg/kg  |  | 1.1  | 1 | 06/23/14 10:03 | 06/24/14 10:39 | 7440-28-0 |  |

**8270 MSSV SHORT LIST  
MICROWAVE**

Analytical Method: EPA 8270      Preparation Method: EPA 3546

|                                |          |  |     |   |                |                |           |  |
|--------------------------------|----------|--|-----|---|----------------|----------------|-----------|--|
| Acenaphthene                   | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 83-32-9   |  |
| Acenaphthylene                 | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 208-96-8  |  |
| Anthracene                     | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 120-12-7  |  |
| Benzo(a)anthracene             | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 56-55-3   |  |
| Benzo(a)pyrene                 | ND ug/kg |  | 180 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 50-32-8   |  |
| Benzo(b)fluoranthene           | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 205-99-2  |  |
| Benzo(g,h,i)perylene           | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 191-24-2  |  |
| Benzo(k)fluoranthene           | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 207-08-9  |  |
| Benzyl alcohol                 | ND ug/kg |  | 699 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 100-51-6  |  |
| 4-Bromophenylphenyl ether      | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 101-55-3  |  |
| Butylbenzylphthalate           | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 85-68-7   |  |
| 4-Chloro-3-methylphenol        | ND ug/kg |  | 699 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 59-50-7   |  |
| 4-Chloroaniline                | ND ug/kg |  | 699 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane     | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 111-91-1  |  |
| bis(2-Chloroethyl) ether       | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 111-44-4  |  |
| bis(2chloro1methylethyl) ether | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 108-60-1  |  |
| 2-Chloronaphthalene            | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 91-58-7   |  |
| 2-Chlorophenol                 | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether     | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 7005-72-3 |  |
| Chrysene                       | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 218-01-9  |  |
| Dibenz(a,h)anthracene          | ND ug/kg |  | 180 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 53-70-3   |  |
| Dibenzofuran                   | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine         | ND ug/kg |  | 699 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 91-94-1   |  |
| 2,4-Dichlorophenol             | ND ug/kg |  | 349 | 1 | 06/25/14 12:30 | 06/27/14 18:31 | 120-83-2  |  |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-5(2-4)**      **Lab ID: 5099688002**      Collected: 06/20/14 12:45      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1690         | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1690         | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 699          | 1  | 06/25/14 12:30 | 06/27/14 18:31 |           |      |
| Naphthalene                  | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1690         | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1690         | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1690         | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1690         | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1690         | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 74 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 74 %.   |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 103 %.  |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 1718-51-0 |      |
| Phenol-d5 (S)                | 76 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 73 %.   |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 78 %.   |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 18:31 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-5(2-4)**      **Lab ID: 5099688002**      Collected: 06/20/14 12:45      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 118          | 1  |          | 07/02/14 19:48 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 118          | 1  |          | 07/02/14 19:48 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 118          | 1  |          | 07/02/14 19:48 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 29.6         | 1  |          | 07/02/14 19:48 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 11.8         | 1  |          | 07/02/14 19:48 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 118          | 1  |          | 07/02/14 19:48 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 118          | 1  |          | 07/02/14 19:48 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.9          | 1  |          | 07/02/14 19:48 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 118          | 1  |          | 07/02/14 19:48 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 118          | 1  |          | 07/02/14 19:48 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-5(2-4)**      **Lab ID: 5099688002**      Collected: 06/20/14 12:45      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 98-82-8   |      |
| p-Isopropyltoluene          | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 99-87-6   |      |
| Methylene Chloride          | ND           | ug/kg                            | 23.7         | 1  |          | 07/02/14 19:48 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 29.6         | 1  |          | 07/02/14 19:48 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 118          | 1  |          | 07/02/14 19:48 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 5.9          | 1  |          | 07/02/14 19:48 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 11.8         | 1  |          | 07/02/14 19:48 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 93 %         |                                  | 85-118       | 1  |          | 07/02/14 19:48 | 1868-53-7 |      |
| Toluene-d8 (S)              | 94 %         |                                  | 71-128       | 1  |          | 07/02/14 19:48 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 98 %         |                                  | 56-144       | 1  |          | 07/02/14 19:48 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>5.8 %</b> |                                  | 0.10         | 1  |          | 06/26/14 11:50 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

**Sample: TMW-4(14-16)**      **Lab ID: 5099688003**      Collected: 06/20/14 12:45      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8082 GCS PCB**

Analytical Method: EPA 8082      Preparation Method: EPA 3546

|                         |          |  |     |   |                |                |            |  |
|-------------------------|----------|--|-----|---|----------------|----------------|------------|--|
| PCB-1016 (Aroclor 1016) | ND ug/kg |  | 111 | 1 | 06/26/14 11:14 | 06/27/14 00:49 | 12674-11-2 |  |
| PCB-1221 (Aroclor 1221) | ND ug/kg |  | 111 | 1 | 06/26/14 11:14 | 06/27/14 00:49 | 11104-28-2 |  |
| PCB-1232 (Aroclor 1232) | ND ug/kg |  | 111 | 1 | 06/26/14 11:14 | 06/27/14 00:49 | 11141-16-5 |  |
| PCB-1242 (Aroclor 1242) | ND ug/kg |  | 111 | 1 | 06/26/14 11:14 | 06/27/14 00:49 | 53469-21-9 |  |
| PCB-1248 (Aroclor 1248) | ND ug/kg |  | 111 | 1 | 06/26/14 11:14 | 06/27/14 00:49 | 12672-29-6 |  |
| PCB-1254 (Aroclor 1254) | ND ug/kg |  | 111 | 1 | 06/26/14 11:14 | 06/27/14 00:49 | 11097-69-1 |  |
| PCB-1260 (Aroclor 1260) | ND ug/kg |  | 111 | 1 | 06/26/14 11:14 | 06/27/14 00:49 | 11096-82-5 |  |

**Surrogates**

|                          |       |  |        |   |                |                |          |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 72 %. |  | 30-106 | 1 | 06/26/14 11:14 | 06/27/14 00:49 | 877-09-8 |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010      Preparation Method: EPA 3050

|          |            |  |      |   |                |                |           |  |
|----------|------------|--|------|---|----------------|----------------|-----------|--|
| Antimony | ND mg/kg   |  | 0.99 | 1 | 06/23/14 10:03 | 06/24/14 10:47 | 7440-36-0 |  |
| Arsenic  | 3.2 mg/kg  |  | 0.99 | 1 | 06/23/14 10:03 | 06/24/14 10:47 | 7440-38-2 |  |
| Chromium | 5.4 mg/kg  |  | 0.99 | 1 | 06/23/14 10:03 | 06/24/14 10:47 | 7440-47-3 |  |
| Cobalt   | 1.9 mg/kg  |  | 0.99 | 1 | 06/23/14 10:03 | 06/24/14 10:47 | 7440-48-4 |  |
| Iron     | 5490 mg/kg |  | 49.7 | 1 | 06/23/14 10:03 | 06/24/14 10:47 | 7439-89-6 |  |
| Lead     | 4.9 mg/kg  |  | 0.99 | 1 | 06/23/14 10:03 | 06/24/14 10:47 | 7439-92-1 |  |
| Selenium | ND mg/kg   |  | 0.99 | 1 | 06/23/14 10:03 | 06/24/14 10:47 | 7782-49-2 |  |
| Thallium | 2.1 mg/kg  |  | 0.99 | 1 | 06/23/14 10:03 | 06/24/14 10:47 | 7440-28-0 |  |

**8270 MSSV SHORT LIST  
MICROWAVE**

Analytical Method: EPA 8270      Preparation Method: EPA 3546

|                                |          |  |     |   |                |                |           |  |
|--------------------------------|----------|--|-----|---|----------------|----------------|-----------|--|
| Acenaphthene                   | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 83-32-9   |  |
| Acenaphthylene                 | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 208-96-8  |  |
| Anthracene                     | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 120-12-7  |  |
| Benzo(a)anthracene             | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 56-55-3   |  |
| Benzo(a)pyrene                 | ND ug/kg |  | 190 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 50-32-8   |  |
| Benzo(b)fluoranthene           | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 205-99-2  |  |
| Benzo(g,h,i)perylene           | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 191-24-2  |  |
| Benzo(k)fluoranthene           | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 207-08-9  |  |
| Benzyl alcohol                 | ND ug/kg |  | 738 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 100-51-6  |  |
| 4-Bromophenylphenyl ether      | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 101-55-3  |  |
| Butylbenzylphthalate           | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 85-68-7   |  |
| 4-Chloro-3-methylphenol        | ND ug/kg |  | 738 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 59-50-7   |  |
| 4-Chloroaniline                | ND ug/kg |  | 738 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane     | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 111-91-1  |  |
| bis(2-Chloroethyl) ether       | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 111-44-4  |  |
| bis(2chloro1methylethyl) ether | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 108-60-1  |  |
| 2-Chloronaphthalene            | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 91-58-7   |  |
| 2-Chlorophenol                 | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether     | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 7005-72-3 |  |
| Chrysene                       | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 218-01-9  |  |
| Dibenz(a,h)anthracene          | ND ug/kg |  | 190 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 53-70-3   |  |
| Dibenzofuran                   | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine         | ND ug/kg |  | 738 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 91-94-1   |  |
| 2,4-Dichlorophenol             | ND ug/kg |  | 369 | 1 | 06/25/14 12:30 | 06/27/14 18:54 | 120-83-2  |  |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-4(14-16)**      **Lab ID: 5099688003**      Collected: 06/20/14 12:45      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results  | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|----------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |          | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |          |   |              |    |                |                |           |      |
| Diethylphthalate             | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 105-67-9  |      |
| Dimethylphthalate            | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 131-11-3  |      |
| Di-n-butylphthalate          | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND ug/kg |   | 1790         | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND ug/kg |   | 1790         | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 606-20-2  |      |
| Di-n-octylphthalate          | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 117-81-7  |      |
| Fluoranthene                 | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 206-44-0  |      |
| Fluorene                     | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 87-68-3   |      |
| Hexachlorobenzene            | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 77-47-4   |      |
| Hexachloroethane             | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 193-39-5  |      |
| Isophorone                   | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND ug/kg |   | 738          | 1  | 06/25/14 12:30 | 06/27/14 18:54 |           |      |
| Naphthalene                  | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 91-20-3   |      |
| 2-Nitroaniline               | ND ug/kg |   | 1790         | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 88-74-4   |      |
| 3-Nitroaniline               | ND ug/kg |   | 1790         | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 99-09-2   |      |
| 4-Nitroaniline               | ND ug/kg |   | 1790         | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 100-01-6  |      |
| Nitrobenzene                 | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 98-95-3   |      |
| 2-Nitrophenol                | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 88-75-5   |      |
| 4-Nitrophenol                | ND ug/kg |   | 1790         | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 86-30-6   |      |
| Pentachlorophenol            | ND ug/kg |   | 1790         | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 87-86-5   |      |
| Phenanthrene                 | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 85-01-8   |      |
| Phenol                       | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 108-95-2  |      |
| Pyrene                       | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND ug/kg |   | 369          | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 88-06-2   |      |
| <b>Surrogates</b>            |          |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 79 %.    |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 78 %.    |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 102 %.   |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 1718-51-0 |      |
| Phenol-d5 (S)                | 80 %.    |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 78 %.    |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 85 %.    |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 18:54 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-4(14-16)**      **Lab ID: 5099688003**      Collected: 06/20/14 12:45      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 111          | 1  |          | 07/02/14 20:21 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 111          | 1  |          | 07/02/14 20:21 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 111          | 1  |          | 07/02/14 20:21 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 27.8         | 1  |          | 07/02/14 20:21 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 11.1         | 1  |          | 07/02/14 20:21 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 111          | 1  |          | 07/02/14 20:21 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 111          | 1  |          | 07/02/14 20:21 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.6          | 1  |          | 07/02/14 20:21 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 111          | 1  |          | 07/02/14 20:21 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 111          | 1  |          | 07/02/14 20:21 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

**Sample: TMW-4(14-16)**      **Lab ID: 5099688003**      Collected: 06/20/14 12:45      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 22.2         | 1  |          | 07/02/14 20:21 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 27.8         | 1  |          | 07/02/14 20:21 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 111          | 1  |          | 07/02/14 20:21 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.6          | 1  |          | 07/02/14 20:21 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 11.1         | 1  |          | 07/02/14 20:21 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 95 %          |                                  | 85-118       | 1  |          | 07/02/14 20:21 | 1868-53-7 |      |
| Toluene-d8 (S)              | 94 %          |                                  | 71-128       | 1  |          | 07/02/14 20:21 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 98 %          |                                  | 56-144       | 1  |          | 07/02/14 20:21 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>10.9 %</b> |                                  | 0.10         | 1  |          | 06/26/14 11:50 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-4(5-7)**      **Lab ID: 5099688004**      Collected: 06/20/14 11:55      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:31 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:31 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:31 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:31 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:31 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:31 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:31 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 91 %    |       | 30-106       | 1  | 06/26/14 11:14 | 06/27/14 03:31 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 10:49 | 7440-36-0  |      |
| Arsenic   | 4.0     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 10:49 | 7440-38-2  |      |
| Chromium  | 6.7     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 10:49 | 7440-47-3  |      |
| Cobalt  | 2.2     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 10:49 | 7440-48-4  |      |
| Iron  | 7150    | mg/kg | 52.0         | 1  | 06/23/14 10:03 | 06/24/14 10:49 | 7439-89-6  |      |
| Lead  | 4.5     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 10:49 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 10:49 | 7782-49-2  |      |
| Thallium  | 2.3     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 10:49 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 177          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 686          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 686          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 686          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 177          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 686          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-4(5-7)**      **Lab ID: 5099688004**      Collected: 06/20/14 11:55      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results  | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|----------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |          | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |          |   |              |    |                |                |           |      |
| Diethylphthalate             | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 105-67-9  |      |
| Dimethylphthalate            | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 131-11-3  |      |
| Di-n-butylphthalate          | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND ug/kg |   | 1660         | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND ug/kg |   | 1660         | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 606-20-2  |      |
| Di-n-octylphthalate          | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 117-81-7  |      |
| Fluoranthene                 | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 206-44-0  |      |
| Fluorene                     | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 87-68-3   |      |
| Hexachlorobenzene            | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 77-47-4   |      |
| Hexachloroethane             | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 193-39-5  |      |
| Isophorone                   | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND ug/kg |   | 686          | 1  | 06/25/14 12:30 | 06/27/14 19:18 |           |      |
| Naphthalene                  | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 91-20-3   |      |
| 2-Nitroaniline               | ND ug/kg |   | 1660         | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 88-74-4   |      |
| 3-Nitroaniline               | ND ug/kg |   | 1660         | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 99-09-2   |      |
| 4-Nitroaniline               | ND ug/kg |   | 1660         | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 100-01-6  |      |
| Nitrobenzene                 | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 98-95-3   |      |
| 2-Nitrophenol                | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 88-75-5   |      |
| 4-Nitrophenol                | ND ug/kg |   | 1660         | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 86-30-6   |      |
| Pentachlorophenol            | ND ug/kg |   | 1660         | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 87-86-5   |      |
| Phenanthrene                 | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 85-01-8   |      |
| Phenol                       | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 108-95-2  |      |
| Pyrene                       | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND ug/kg |   | 343          | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 88-06-2   |      |
| <b>Surrogates</b>            |          |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 75 %.    |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 78 %.    |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 103 %.   |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 1718-51-0 |      |
| Phenol-d5 (S)                | 78 %.    |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 75 %.    |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 80 %.    |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 19:18 | 118-79-6  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-4(5-7)**      **Lab ID: 5099688004**      Collected: 06/20/14 11:55      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 93.2         | 1  |          | 07/02/14 20:53 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 93.2         | 1  |          | 07/02/14 20:53 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 93.2         | 1  |          | 07/02/14 20:53 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 23.3         | 1  |          | 07/02/14 20:53 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.3          | 1  |          | 07/02/14 20:53 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 93.2         | 1  |          | 07/02/14 20:53 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 93.2         | 1  |          | 07/02/14 20:53 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 93.2         | 1  |          | 07/02/14 20:53 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 93.2         | 1  |          | 07/02/14 20:53 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-4(5-7)**      **Lab ID: 5099688004**      Collected: 06/20/14 11:55      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 98-82-8   |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 99-87-6   |      |
| Methylene Chloride          | ND      | ug/kg                       | 18.6         | 1  |          | 07/02/14 20:53 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/kg                       | 23.3         | 1  |          | 07/02/14 20:53 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 103-65-1  |      |
| Styrene                     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 127-18-4  |      |
| Toluene                     | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/kg                       | 93.2         | 1  |          | 07/02/14 20:53 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/kg                       | 4.7          | 1  |          | 07/02/14 20:53 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/kg                       | 9.3          | 1  |          | 07/02/14 20:53 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                             |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 95 %    |                             | 85-118       | 1  |          | 07/02/14 20:53 | 1868-53-7 |      |
| Toluene-d8 (S)              | 94 %    |                             | 71-128       | 1  |          | 07/02/14 20:53 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 98 %    |                             | 56-144       | 1  |          | 07/02/14 20:53 | 460-00-4  |      |

**Percent Moisture**

Analytical Method: ASTM D2974-87

|                  |       |  |      |   |  |                |  |  |
|------------------|-------|--|------|---|--|----------------|--|--|
| Percent Moisture | 4.4 % |  | 0.10 | 1 |  | 06/26/14 11:51 |  |  |
|------------------|-------|--|------|---|--|----------------|--|--|

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-5(10-12)**      **Lab ID: 5099688005**      Collected: 06/20/14 11:05      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                            | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|---|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg   | 103          | 1  | 06/26/14 11:14 | 06/27/14 03:37 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg   | 103          | 1  | 06/26/14 11:14 | 06/27/14 03:37 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg   | 103          | 1  | 06/26/14 11:14 | 06/27/14 03:37 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg   | 103          | 1  | 06/26/14 11:14 | 06/27/14 03:37 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg   | 103          | 1  | 06/26/14 11:14 | 06/27/14 03:37 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg   | 103          | 1  | 06/26/14 11:14 | 06/27/14 03:37 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg   | 103          | 1  | 06/26/14 11:14 | 06/27/14 03:37 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |   |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 76 %.   |   | 30-106       | 1  | 06/26/14 11:14 | 06/27/14 03:37 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010    Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg   | 0.87         | 1  | 06/23/14 10:03 | 06/24/14 10:51 | 7440-36-0  |      |
| Arsenic                               | 2.0     | mg/kg   | 0.87         | 1  | 06/23/14 10:03 | 06/24/14 10:51 | 7440-38-2  |      |
| Chromium                              | 3.5     | mg/kg   | 0.87         | 1  | 06/23/14 10:03 | 06/24/14 10:51 | 7440-47-3  |      |
| Cobalt                                | 1.1     | mg/kg   | 0.87         | 1  | 06/23/14 10:03 | 06/24/14 10:51 | 7440-48-4  |      |
| Iron                                  | 4140    | mg/kg   | 43.4         | 1  | 06/23/14 10:03 | 06/24/14 10:51 | 7439-89-6  |      |
| Lead                                  | 2.6     | mg/kg   | 0.87         | 1  | 06/23/14 10:03 | 06/24/14 10:51 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg   | 0.87         | 1  | 06/23/14 10:03 | 06/24/14 10:51 | 7782-49-2  |      |
| Thallium                              | 1.5     | mg/kg   | 0.87         | 1  | 06/23/14 10:03 | 06/24/14 10:51 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg   | 174          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg   | 677          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg   | 677          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg   | 677          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg   | 174          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg   | 677          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Project No.: 5099688

**Sample: P-5(10-12)**      **Lab ID: 5099688005**      Collected: 06/20/14 11:05      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 677          | 1  | 06/25/14 12:30 | 06/27/14 19:41 |           |      |
| Naphthalene                  | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 76 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 77 %.   |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 108 %.  |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 1718-51-0 |      |
| Phenol-d5 (S)                | 79 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 77 %.   |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 79 %.   |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 19:41 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Sample Project No.: 5099688

**Sample: P-5(10-12)**      **Lab ID: 5099688005**      Collected: 06/20/14 11:05      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 98.1         | 1  |          | 07/03/14 05:01 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 98.1         | 1  |          | 07/03/14 05:01 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 98.1         | 1  |          | 07/03/14 05:01 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.5         | 1  |          | 07/03/14 05:01 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.8          | 1  |          | 07/03/14 05:01 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 98.1         | 1  |          | 07/03/14 05:01 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 98.1         | 1  |          | 07/03/14 05:01 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 05:01 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 98.1         | 1  |          | 07/03/14 05:01 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 98.1         | 1  |          | 07/03/14 05:01 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-5(10-12)**      **Lab ID: 5099688005**      Collected: 06/20/14 11:05      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 98-82-8   |      |
| p-Isopropyltoluene          | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 99-87-6   |      |
| Methylene Chloride          | ND           | ug/kg                            | 19.6         | 1  |          | 07/03/14 05:01 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 24.5         | 1  |          | 07/03/14 05:01 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 98.1         | 1  |          | 07/03/14 05:01 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 05:01 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 9.8          | 1  |          | 07/03/14 05:01 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 100 %.       |                                  | 85-118       | 1  |          | 07/03/14 05:01 | 1868-53-7 |      |
| Toluene-d8 (S)              | 93 %.        |                                  | 71-128       | 1  |          | 07/03/14 05:01 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 99 %.        |                                  | 56-144       | 1  |          | 07/03/14 05:01 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>3.9 %</b> |                                  | 0.10         | 1  |          | 06/26/14 11:51 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-5(2-4)**      **Lab ID: 5099688006**      Collected: 06/20/14 10:50      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:43 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:43 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:43 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:43 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:43 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:43 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                  | ND      | ug/kg | 104          | 1  | 06/26/14 11:14 | 06/27/14 03:43 | 11096-82-5 |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                 | 81 %    |       | 30-106       | 1  | 06/26/14 11:14 | 06/27/14 03:43 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony   | ND      | mg/kg | 0.93         | 1  | 06/23/14 10:03 | 06/24/14 10:54 | 7440-36-0  |      |
| Arsenic  | 2.6     | mg/kg | 0.93         | 1  | 06/23/14 10:03 | 06/24/14 10:54 | 7440-38-2  |      |
| Chromium   | 6.1     | mg/kg | 0.93         | 1  | 06/23/14 10:03 | 06/24/14 10:54 | 7440-47-3  |      |
| Cobalt   | 2.3     | mg/kg | 0.93         | 1  | 06/23/14 10:03 | 06/24/14 10:54 | 7440-48-4  |      |
| Iron   | 6780    | mg/kg | 46.7         | 1  | 06/23/14 10:03 | 06/24/14 10:54 | 7439-89-6  |      |
| Lead   | 4.1     | mg/kg | 0.93         | 1  | 06/23/14 10:03 | 06/24/14 10:54 | 7439-92-1  |      |
| Selenium   | ND      | mg/kg | 0.93         | 1  | 06/23/14 10:03 | 06/24/14 10:54 | 7782-49-2  |      |
| Thallium   | 2.3     | mg/kg | 0.93         | 1  | 06/23/14 10:03 | 06/24/14 10:54 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                    |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 83-32-9    |      |
| Acenaphthylene   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 208-96-8   |      |
| Anthracene   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 120-12-7   |      |
| Benzo(a)anthracene                                       | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 56-55-3    |      |
| Benzo(a)pyrene   | ND      | ug/kg | 177          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 50-32-8    |      |
| Benzo(b)fluoranthene                                     | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                     | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 191-24-2   |      |
| Benzo(k)fluoranthene                                     | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 207-08-9   |      |
| Benzyl alcohol   | ND      | ug/kg | 687          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 101-55-3   |      |
| Butylbenzylphthalate                                     | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                  | ND      | ug/kg | 687          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 59-50-7    |      |
| 4-Chloroaniline  | ND      | ug/kg | 687          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                               | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                 | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                           | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 108-60-1   |      |
| 2-Chloronaphthalene                                      | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 91-58-7    |      |
| 2-Chlorophenol   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                               | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 7005-72-3  |      |
| Chrysene   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                    | ND      | ug/kg | 177          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 53-70-3    |      |
| Dibenzofuran   | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                   | ND      | ug/kg | 687          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 91-94-1    |      |
| 2,4-Dichlorophenol                                       | ND      | ug/kg | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Project No.: 5099688

**Sample: P-5(2-4)**      **Lab ID: 5099688006**      Collected: 06/20/14 10:50      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 687          | 1  | 06/25/14 12:30 | 06/27/14 20:04 |           |      |
| Naphthalene                  | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1670         | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 344          | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 71 %    |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 75 %    |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 103 %   |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 1718-51-0 |      |
| Phenol-d5 (S)                | 76 %    |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 73 %    |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 79 %    |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 20:04 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-5(2-4)**      **Lab ID: 5099688006**      Collected: 06/20/14 10:50      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 93.6         | 1  |          | 07/03/14 05:33 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 93.6         | 1  |          | 07/03/14 05:33 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 93.6         | 1  |          | 07/03/14 05:33 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 23.4         | 1  |          | 07/03/14 05:33 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.4          | 1  |          | 07/03/14 05:33 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 93.6         | 1  |          | 07/03/14 05:33 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 93.6         | 1  |          | 07/03/14 05:33 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 05:33 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 93.6         | 1  |          | 07/03/14 05:33 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 93.6         | 1  |          | 07/03/14 05:33 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-5(2-4)**      **Lab ID: 5099688006**      Collected: 06/20/14 10:50      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 98-82-8   |      |
| p-Isopropyltoluene          | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 99-87-6   |      |
| Methylene Chloride          | ND      | ug/kg                            | 18.7         | 1  |          | 07/03/14 05:33 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/kg                            | 23.4         | 1  |          | 07/03/14 05:33 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 103-65-1  |      |
| Styrene                     | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 127-18-4  |      |
| Toluene                     | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/kg                            | 93.6         | 1  |          | 07/03/14 05:33 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/kg                            | 4.7          | 1  |          | 07/03/14 05:33 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/kg                            | 9.4          | 1  |          | 07/03/14 05:33 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 97 %    |                                  | 85-118       | 1  |          | 07/03/14 05:33 | 1868-53-7 |      |
| Toluene-d8 (S)              | 95 %    |                                  | 71-128       | 1  |          | 07/03/14 05:33 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 99 %    |                                  | 56-144       | 1  |          | 07/03/14 05:33 | 460-00-4  |      |
| <b>Percent Moisture</b>     |         | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | 4.3 %   |                                  | 0.10         | 1  |          | 06/26/14 11:52 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-6(14-16)**      **Lab ID: 5099688007**      Collected: 06/20/14 10:30      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|---|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg   | 109          | 1  | 06/26/14 11:14 | 06/27/14 03:49 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg   | 109          | 1  | 06/26/14 11:14 | 06/27/14 03:49 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg   | 109          | 1  | 06/26/14 11:14 | 06/27/14 03:49 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg   | 109          | 1  | 06/26/14 11:14 | 06/27/14 03:49 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg   | 109          | 1  | 06/26/14 11:14 | 06/27/14 03:49 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg   | 109          | 1  | 06/26/14 11:14 | 06/27/14 03:49 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg   | 109          | 1  | 06/26/14 11:14 | 06/27/14 03:49 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |   |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 74 %.   |   | 30-106       | 1  | 06/26/14 11:14 | 06/27/14 03:49 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010    Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg   | 0.97         | 1  | 06/23/14 10:03 | 06/24/14 10:56 | 7440-36-0  |      |
| Arsenic                               | 2.0     | mg/kg   | 0.97         | 1  | 06/23/14 10:03 | 06/24/14 10:56 | 7440-38-2  |      |
| Chromium                              | 3.4     | mg/kg   | 0.97         | 1  | 06/23/14 10:03 | 06/24/14 10:56 | 7440-47-3  |      |
| Cobalt                                | 1.2     | mg/kg   | 0.97         | 1  | 06/23/14 10:03 | 06/24/14 10:56 | 7440-48-4  |      |
| Iron                                  | 3310    | mg/kg   | 48.6         | 1  | 06/23/14 10:03 | 06/24/14 10:56 | 7439-89-6  |      |
| Lead                                  | 2.4     | mg/kg   | 0.97         | 1  | 06/23/14 10:03 | 06/24/14 10:56 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg   | 0.97         | 1  | 06/23/14 10:03 | 06/24/14 10:56 | 7782-49-2  |      |
| Thallium                              | 1.5     | mg/kg   | 0.97         | 1  | 06/23/14 10:03 | 06/24/14 10:56 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg   | 185          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg   | 719          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg   | 719          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg   | 719          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg   | 185          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg   | 719          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 120-83-2   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-6(14-16)**      **Lab ID: 5099688007**      Collected: 06/20/14 10:30      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1740         | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1740         | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 719          | 1  | 06/25/14 12:30 | 06/27/14 20:28 |           |      |
| Naphthalene                  | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1740         | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1740         | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1740         | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1740         | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1740         | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 359          | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 75 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 72 %.   |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 93 %.   |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 1718-51-0 |      |
| Phenol-d5 (S)                | 76 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 76 %.   |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 79 %.   |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 20:28 | 118-79-6  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-6(14-16)**      **Lab ID: 5099688007**      Collected: 06/20/14 10:30      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 80.7         | 1  |          | 07/03/14 06:05 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 80.7         | 1  |          | 07/03/14 06:05 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 80.7         | 1  |          | 07/03/14 06:05 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 20.2         | 1  |          | 07/03/14 06:05 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 8.1          | 1  |          | 07/03/14 06:05 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 80.7         | 1  |          | 07/03/14 06:05 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 80.7         | 1  |          | 07/03/14 06:05 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.0          | 1  |          | 07/03/14 06:05 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 80.7         | 1  |          | 07/03/14 06:05 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 80.7         | 1  |          | 07/03/14 06:05 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-6(14-16)**      **Lab ID: 5099688007**      Collected: 06/20/14 10:30      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 98-82-8   |      |
| p-Isopropyltoluene          | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 99-87-6   |      |
| Methylene Chloride          | ND      | ug/kg                            | 16.1         | 1  |          | 07/03/14 06:05 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/kg                            | 20.2         | 1  |          | 07/03/14 06:05 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 103-65-1  |      |
| Styrene                     | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 127-18-4  |      |
| Toluene                     | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/kg                            | 80.7         | 1  |          | 07/03/14 06:05 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/kg                            | 4.0          | 1  |          | 07/03/14 06:05 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/kg                            | 8.1          | 1  |          | 07/03/14 06:05 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 95 %    |                                  | 85-118       | 1  |          | 07/03/14 06:05 | 1868-53-7 |      |
| Toluene-d8 (S)              | 94 %    |                                  | 71-128       | 1  |          | 07/03/14 06:05 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 98 %    |                                  | 56-144       | 1  |          | 07/03/14 06:05 | 460-00-4  |      |
| <b>Percent Moisture</b>     |         | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | 9.1 %   |                                  | 0.10         | 1  |          | 06/26/14 12:10 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-6(2-4)**      **Lab ID: 5099688008**      Collected: 06/20/14 10:00      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 115          | 1  | 06/26/14 11:14 | 06/27/14 03:55 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 115          | 1  | 06/26/14 11:14 | 06/27/14 03:55 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 115          | 1  | 06/26/14 11:14 | 06/27/14 03:55 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 115          | 1  | 06/26/14 11:14 | 06/27/14 03:55 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 115          | 1  | 06/26/14 11:14 | 06/27/14 03:55 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 115          | 1  | 06/26/14 11:14 | 06/27/14 03:55 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 115          | 1  | 06/26/14 11:14 | 06/27/14 03:55 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 80 %.   |       | 30-106       | 1  | 06/26/14 11:14 | 06/27/14 03:55 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 10:58 | 7440-36-0  |      |
| Arsenic   | 6.3     | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 10:58 | 7440-38-2  |      |
| Chromium  | 27.5    | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 10:58 | 7440-47-3  |      |
| Cobalt  | 4.6     | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 10:58 | 7440-48-4  |      |
| Iron  | 32700   | mg/kg | 527          | 10 | 06/23/14 10:03 | 06/24/14 11:42 | 7439-89-6  |      |
| Lead  | 127     | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 10:58 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 10:58 | 7782-49-2  |      |
| Thallium  | 2.3     | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 10:58 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 194          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 752          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 752          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 752          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 194          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 752          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 120-83-2   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-6(2-4)**      **Lab ID: 5099688008**      Collected: 06/20/14 10:00      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1820         | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1820         | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 752          | 1  | 06/25/14 12:30 | 06/27/14 20:51 |           |      |
| Naphthalene                  | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1820         | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1820         | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1820         | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1820         | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1820         | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 376          | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 73 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 74 %.   |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 95 %.   |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 1718-51-0 |      |
| Phenol-d5 (S)                | 66 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 60 %.   |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 52 %.   |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 20:51 | 118-79-6  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-6(2-4)**      **Lab ID: 5099688008**      Collected: 06/20/14 10:00      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 118          | 1  |          | 07/03/14 07:43 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 118          | 1  |          | 07/03/14 07:43 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 118          | 1  |          | 07/03/14 07:43 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 29.6         | 1  |          | 07/03/14 07:43 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 11.8         | 1  |          | 07/03/14 07:43 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 118          | 1  |          | 07/03/14 07:43 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 118          | 1  |          | 07/03/14 07:43 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 07:43 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 118          | 1  |          | 07/03/14 07:43 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 118          | 1  |          | 07/03/14 07:43 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: TMW-6(2-4)**      **Lab ID: 5099688008**      Collected: 06/20/14 10:00      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 98-82-8   |      |
| p-Isopropyltoluene          | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 99-87-6   |      |
| Methylene Chloride          | ND            | ug/kg                            | 23.7         | 1  |          | 07/03/14 07:43 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 29.6         | 1  |          | 07/03/14 07:43 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 118          | 1  |          | 07/03/14 07:43 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 07:43 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 11.8         | 1  |          | 07/03/14 07:43 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 101 %         |                                  | 85-118       | 1  |          | 07/03/14 07:43 | 1868-53-7 |      |
| Toluene-d8 (S)              | 92 %          |                                  | 71-128       | 1  |          | 07/03/14 07:43 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 97 %          |                                  | 56-144       | 1  |          | 07/03/14 07:43 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>12.9 %</b> |                                  | 0.10         | 1  |          | 06/26/14 12:10 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-6(10-12)**      **Lab ID: 5099688009**      Collected: 06/20/14 09:36      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 17:15 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 17:15 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 17:15 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 17:15 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 17:15 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 17:15 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 17:15 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 79 %    |       | 30-106       | 1  | 06/27/14 12:25 | 07/01/14 17:15 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 11:04 | 7440-36-0  |      |
| Arsenic   | 3.3     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 11:04 | 7440-38-2  |      |
| Chromium  | 4.3     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 11:04 | 7440-47-3  |      |
| Cobalt  | 2.1     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 11:04 | 7440-48-4  |      |
| Iron  | 4940    | mg/kg | 50.2         | 1  | 06/23/14 10:03 | 06/24/14 11:04 | 7439-89-6  |      |
| Lead  | 5.7     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 11:04 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 11:04 | 7782-49-2  |      |
| Thallium  | 2.3     | mg/kg | 1.0          | 1  | 06/23/14 10:03 | 06/24/14 11:04 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 175          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 678          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 678          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 678          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 175          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 678          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-6(10-12)**      **Lab ID: 5099688009**      Collected: 06/20/14 09:36      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |         |   |              |    |                |                |           |      |
| Diethylphthalate             | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 105-67-9  |      |
| Dimethylphthalate            | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 131-11-3  |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 606-20-2  |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 117-81-7  |      |
| Fluoranthene                 | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 206-44-0  |      |
| Fluorene                     | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 87-68-3   |      |
| Hexachlorobenzene            | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 77-47-4   |      |
| Hexachloroethane             | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 193-39-5  |      |
| Isophorone                   | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 678          | 1  | 06/25/14 12:30 | 06/27/14 22:01 |           |      |
| Naphthalene                  | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 91-20-3   |      |
| 2-Nitroaniline               | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 88-74-4   |      |
| 3-Nitroaniline               | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 99-09-2   |      |
| 4-Nitroaniline               | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 100-01-6  |      |
| Nitrobenzene                 | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 98-95-3   |      |
| 2-Nitrophenol                | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 88-75-5   |      |
| 4-Nitrophenol                | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 86-30-6   |      |
| Pentachlorophenol            | ND      | ug/kg   | 1640         | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 87-86-5   |      |
| Phenanthrene                 | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 85-01-8   |      |
| Phenol                       | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 108-95-2  |      |
| Pyrene                       | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 339          | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 88-06-2   |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 79 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 80 %.   |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 95 %.   |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 1718-51-0 |      |
| Phenol-d5 (S)                | 79 %.   |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 78 %.   |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 84 %.   |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 22:01 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-6(10-12)**      **Lab ID: 5099688009**      Collected: 06/20/14 09:36      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 06:38 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 06:38 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 06:38 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.4         | 1  |          | 07/03/14 06:38 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.8          | 1  |          | 07/03/14 06:38 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 06:38 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 06:38 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 06:38 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 06:38 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 06:38 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Project No.: 5099688

**Sample: P-6(10-12)**      **Lab ID: 5099688009**      Collected: 06/20/14 09:36      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 98-82-8   |      |
| p-Isopropyltoluene          | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 99-87-6   |      |
| Methylene Chloride          | ND           | ug/kg                            | 19.5         | 1  |          | 07/03/14 06:38 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 24.4         | 1  |          | 07/03/14 06:38 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 97.7         | 1  |          | 07/03/14 06:38 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 06:38 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 9.8          | 1  |          | 07/03/14 06:38 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 98 %         |                                  | 85-118       | 1  |          | 07/03/14 06:38 | 1868-53-7 |      |
| Toluene-d8 (S)              | 92 %         |                                  | 71-128       | 1  |          | 07/03/14 06:38 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 98 %         |                                  | 56-144       | 1  |          | 07/03/14 06:38 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>2.9 %</b> |                                  | 0.10         | 1  |          | 06/26/14 12:10 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

**Sample: P-6(2-4)**      **Lab ID: 5099688010**      Collected: 06/20/14 09:15      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|---|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg   | 105          | 1  | 06/27/14 12:25 | 07/01/14 17:21 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg   | 105          | 1  | 06/27/14 12:25 | 07/01/14 17:21 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg   | 105          | 1  | 06/27/14 12:25 | 07/01/14 17:21 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg   | 105          | 1  | 06/27/14 12:25 | 07/01/14 17:21 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg   | 105          | 1  | 06/27/14 12:25 | 07/01/14 17:21 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg   | 105          | 1  | 06/27/14 12:25 | 07/01/14 17:21 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg   | 105          | 1  | 06/27/14 12:25 | 07/01/14 17:21 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |   |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 72 %.   |   | 30-106       | 1  | 06/27/14 12:25 | 07/01/14 17:21 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010    Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg   | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:06 | 7440-36-0  |      |
| Arsenic                               | 1.9     | mg/kg   | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:06 | 7440-38-2  |      |
| Chromium                              | 5.0     | mg/kg   | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:06 | 7440-47-3  |      |
| Cobalt                                | 2.5     | mg/kg   | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:06 | 7440-48-4  |      |
| Iron                                  | 5600    | mg/kg   | 47.5         | 1  | 06/23/14 10:03 | 06/24/14 11:06 | 7439-89-6  |      |
| Lead                                  | 5.6     | mg/kg   | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:06 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg   | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:06 | 7782-49-2  |      |
| Thallium                              | 2.0     | mg/kg   | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:06 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg   | 180          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg   | 697          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg   | 697          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg   | 697          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg   | 180          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg   | 697          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg   | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Sample Project No.: 5099688

**Sample: P-6(2-4)**      **Lab ID: 5099688010**      Collected: 06/20/14 09:15      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>                                 |         |       |              |    |                |                |           |      |
| <b>MICROWAVE</b>  |         |       |              |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| Diethylphthalate  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 84-66-2   |      |
| 2,4-Dimethylphenol  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 105-67-9  |      |
| Dimethylphthalate   | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 131-11-3  |      |
| Di-n-butylphthalate   | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | ND      | ug/kg | 1690         | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 534-52-1  |      |
| 2,4-Dinitrophenol   | ND      | ug/kg | 1690         | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 606-20-2  |      |
| Di-n-octylphthalate   | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate                                  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 117-81-7  |      |
| Fluoranthene  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 206-44-0  |      |
| Fluorene  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 87-68-3   |      |
| Hexachlorobenzene   | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 77-47-4   |      |
| Hexachloroethane  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 193-39-5  |      |
| Isophorone  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 78-59-1   |      |
| 2-Methylnaphthalene   | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | ND      | ug/kg | 697          | 1  | 06/25/14 12:30 | 06/27/14 22:24 |           |      |
| Naphthalene   | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 91-20-3   |      |
| 2-Nitroaniline  | ND      | ug/kg | 1690         | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 88-74-4   |      |
| 3-Nitroaniline  | ND      | ug/kg | 1690         | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 99-09-2   |      |
| 4-Nitroaniline  | ND      | ug/kg | 1690         | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 100-01-6  |      |
| Nitrobenzene  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 98-95-3   |      |
| 2-Nitrophenol   | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 88-75-5   |      |
| 4-Nitrophenol   | ND      | ug/kg | 1690         | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine                                  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 86-30-6   |      |
| Pentachlorophenol   | ND      | ug/kg | 1690         | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 87-86-5   |      |
| Phenanthrene  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 85-01-8   |      |
| Phenol  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 108-95-2  |      |
| Pyrene  | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                                       | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | ND      | ug/kg | 349          | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 67 %.   |       | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)  | 68 %.   |       | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 85 %.   |       | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 1718-51-0 |      |
| Phenol-d5 (S)   | 66 %.   |       | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 62 %.   |       | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 69 %.   |       | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 22:24 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-6(2-4)**      **Lab ID: 5099688010**      Collected: 06/20/14 09:15      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 07:10 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 07:10 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 07:10 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 24.4         | 1  |          | 07/03/14 07:10 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.8          | 1  |          | 07/03/14 07:10 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 07:10 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 07:10 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.9          | 1  |          | 07/03/14 07:10 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 07:10 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 97.7         | 1  |          | 07/03/14 07:10 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-6(2-4)**      **Lab ID: 5099688010**      Collected: 06/20/14 09:15      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 98-82-8   |      |
| p-Isopropyltoluene          | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 99-87-6   |      |
| Methylene Chloride          | ND           | ug/kg                            | 19.5         | 1  |          | 07/03/14 07:10 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 24.4         | 1  |          | 07/03/14 07:10 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 97.7         | 1  |          | 07/03/14 07:10 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 4.9          | 1  |          | 07/03/14 07:10 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 9.8          | 1  |          | 07/03/14 07:10 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 98 %         |                                  | 85-118       | 1  |          | 07/03/14 07:10 | 1868-53-7 |      |
| Toluene-d8 (S)              | 92 %         |                                  | 71-128       | 1  |          | 07/03/14 07:10 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 96 %         |                                  | 56-144       | 1  |          | 07/03/14 07:10 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>6.3 %</b> |                                  | 0.10         | 1  |          | 06/26/14 12:10 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-3 RE(2-4)**      **Lab ID: 5099688011**      Collected: 06/20/14 08:35      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                     | ND      | ug/kg | 113          | 1  | 06/27/14 12:25 | 07/03/14 18:41 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                     | ND      | ug/kg | 113          | 1  | 06/27/14 12:25 | 07/03/14 18:41 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                     | ND      | ug/kg | 113          | 1  | 06/27/14 12:25 | 07/03/14 18:41 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                     | ND      | ug/kg | 113          | 1  | 06/27/14 12:25 | 07/03/14 18:41 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                     | ND      | ug/kg | 113          | 1  | 06/27/14 12:25 | 07/03/14 18:41 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                     | ND      | ug/kg | 113          | 1  | 06/27/14 12:25 | 07/03/14 18:41 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                     | ND      | ug/kg | 113          | 1  | 06/27/14 12:25 | 07/03/14 18:41 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                    | 62 %.   |       | 30-106       | 1  | 06/27/14 12:25 | 07/03/14 18:41 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 11:18 | 7440-36-0  |      |
| Arsenic   | 22.0    | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 11:18 | 7440-38-2  |      |
| Chromium  | 15.8    | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 11:18 | 7440-47-3  |      |
| Cobalt  | 4.3     | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 11:18 | 7440-48-4  |      |
| Iron  | 56100   | mg/kg | 561          | 10 | 06/23/14 10:03 | 06/24/14 11:48 | 7439-89-6  |      |
| Lead  | 37.8    | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 11:18 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 11:18 | 7782-49-2  |      |
| Thallium  | 5.4     | mg/kg | 1.1          | 1  | 06/23/14 10:03 | 06/24/14 11:18 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                       |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 191          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 742          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                   | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                     | ND      | ug/kg | 742          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 742          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                                  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                    | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                              | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                                  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                       | ND      | ug/kg | 191          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                      | ND      | ug/kg | 742          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-3 RE(2-4)**      **Lab ID: 5099688011**      Collected: 06/20/14 08:35      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results    | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|------------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |            | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |            |   |              |    |                |                |           |      |
| Diethylphthalate             | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 105-67-9  |      |
| Dimethylphthalate            | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 131-11-3  |      |
| Di-n-butylphthalate          | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND         | ug/kg   | 1800         | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND         | ug/kg   | 1800         | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 606-20-2  |      |
| Di-n-octylphthalate          | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 117-81-7  |      |
| Fluoranthene                 | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 206-44-0  |      |
| Fluorene                     | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 87-68-3   |      |
| Hexachlorobenzene            | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 77-47-4   |      |
| Hexachloroethane             | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 193-39-5  |      |
| Isophorone                   | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 78-59-1   |      |
| 2-Methylnaphthalene          | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND         | ug/kg   | 742          | 1  | 06/25/14 12:30 | 06/27/14 22:48 |           |      |
| Naphthalene                  | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 91-20-3   |      |
| 2-Nitroaniline               | ND         | ug/kg   | 1800         | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 88-74-4   |      |
| 3-Nitroaniline               | ND         | ug/kg   | 1800         | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 99-09-2   |      |
| 4-Nitroaniline               | ND         | ug/kg   | 1800         | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 100-01-6  |      |
| Nitrobenzene                 | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 98-95-3   |      |
| 2-Nitrophenol                | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 88-75-5   |      |
| 4-Nitrophenol                | ND         | ug/kg   | 1800         | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 86-30-6   |      |
| Pentachlorophenol            | ND         | ug/kg   | 1800         | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 87-86-5   |      |
| Phenanthrene                 | <b>572</b> | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 85-01-8   |      |
| Phenol                       | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 108-95-2  |      |
| Pyrene                       | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND         | ug/kg   | 371          | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 88-06-2   |      |
| <b>Surrogates</b>            |            |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 29 %       |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 34 %       |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 42 %       |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 1718-51-0 |      |
| Phenol-d5 (S)                | 26 %       |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 4165-62-2 | S0   |
| 2-Fluorophenol (S)           | 25 %       |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 25 %       |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 22:48 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

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**Sample: P-3 RE(2-4)**      **Lab ID: 5099688011**      Collected: 06/20/14 08:35      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters              | Results     | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No. | Qual |
|-------------------------|-------------|----------------------------------|--------------|----|----------|----------------|---------|------|
| <b>Percent Moisture</b> |             | Analytical Method: ASTM D2974-87 |              |    |          |                |         |      |
| Percent Moisture        | <b>12.2</b> | %                                | 0.10         | 1  |          | 06/26/14 12:11 |         |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-8 RE(0-2)**      **Lab ID: 5099688012**      Collected: 06/20/14 08:45      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                  | ND      | ug/kg | 1130         | 10 | 06/27/14 12:25 | 07/02/14 22:51 | 12674-11-2 | D3   |
| PCB-1221 (Aroclor 1221)                                  | ND      | ug/kg | 1130         | 10 | 06/27/14 12:25 | 07/02/14 22:51 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                  | ND      | ug/kg | 1130         | 10 | 06/27/14 12:25 | 07/02/14 22:51 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                  | ND      | ug/kg | 1130         | 10 | 06/27/14 12:25 | 07/02/14 22:51 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                  | ND      | ug/kg | 1130         | 10 | 06/27/14 12:25 | 07/02/14 22:51 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                  | ND      | ug/kg | 1130         | 10 | 06/27/14 12:25 | 07/02/14 22:51 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                  | ND      | ug/kg | 1130         | 10 | 06/27/14 12:25 | 07/02/14 22:51 | 11096-82-5 |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                 | 0 %     |       | 30-106       | 10 | 06/27/14 12:25 | 07/02/14 22:51 | 877-09-8   | S4   |
| <b>6010 MET ICP</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony   | ND      | mg/kg | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:20 | 7440-36-0  |      |
| Arsenic  | 3.2     | mg/kg | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:20 | 7440-38-2  |      |
| Chromium   | 14.3    | mg/kg | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:20 | 7440-47-3  |      |
| Cobalt   | 1.3     | mg/kg | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:20 | 7440-48-4  |      |
| Iron   | 23100   | mg/kg | 476          | 10 | 06/23/14 10:03 | 06/24/14 11:50 | 7439-89-6  |      |
| Lead   | 4.1     | mg/kg | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:20 | 7439-92-1  |      |
| Selenium   | ND      | mg/kg | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:20 | 7782-49-2  |      |
| Thallium   | ND      | mg/kg | 0.95         | 1  | 06/23/14 10:03 | 06/24/14 11:20 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                    |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene   | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 83-32-9    |      |
| Acenaphthylene   | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 208-96-8   |      |
| Anthracene   | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 120-12-7   |      |
| Benzo(a)anthracene                                       | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 56-55-3    |      |
| Benzo(a)pyrene   | ND      | ug/kg | 193          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 50-32-8    |      |
| Benzo(b)fluoranthene                                     | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                     | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 191-24-2   |      |
| Benzo(k)fluoranthene                                     | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 207-08-9   |      |
| Benzyl alcohol   | ND      | ug/kg | 748          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 101-55-3   |      |
| Butylbenzylphthalate                                     | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                  | ND      | ug/kg | 748          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 59-50-7    |      |
| 4-Chloroaniline  | ND      | ug/kg | 748          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                               | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                 | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                           | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 108-60-1   |      |
| 2-Chloronaphthalene                                      | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 91-58-7    |      |
| 2-Chlorophenol   | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                               | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 7005-72-3  |      |
| Chrysene   | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                    | ND      | ug/kg | 193          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 53-70-3    |      |
| Dibenzofuran   | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                   | ND      | ug/kg | 748          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 91-94-1    |      |
| 2,4-Dichlorophenol                                       | ND      | ug/kg | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 120-83-2   |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

**Sample: P-8 RE(0-2)**      **Lab ID: 5099688012**      Collected: 06/20/14 08:45      Received: 06/21/14 10:54      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results     | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|-------------|---|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST</b>  |             | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |           |      |
| <b>MICROWAVE</b>             |             |   |              |    |                |                |           |      |
| Diethylphthalate             | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 84-66-2   |      |
| 2,4-Dimethylphenol           | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 105-67-9  |      |
| Dimethylphthalate            | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 131-11-3  |      |
| Di-n-butylphthalate          | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND          | ug/kg   | 1810         | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 534-52-1  |      |
| 2,4-Dinitrophenol            | ND          | ug/kg   | 1810         | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 51-28-5   |      |
| 2,4-Dinitrotoluene           | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 121-14-2  |      |
| 2,6-Dinitrotoluene           | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 606-20-2  |      |
| Di-n-octylphthalate          | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 117-81-7  |      |
| Fluoranthene                 | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 206-44-0  |      |
| Fluorene                     | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 86-73-7   |      |
| Hexachloro-1,3-butadiene     | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 87-68-3   |      |
| Hexachlorobenzene            | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 118-74-1  |      |
| Hexachlorocyclopentadiene    | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 77-47-4   |      |
| Hexachloroethane             | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene       | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 193-39-5  |      |
| Isophorone                   | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 78-59-1   |      |
| 2-Methylnaphthalene          | <b>1220</b> | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)     | <b>504</b>  | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol) | ND          | ug/kg   | 748          | 1  | 06/25/14 12:30 | 06/27/14 23:11 |           |      |
| Naphthalene                  | <b>3120</b> | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 91-20-3   |      |
| 2-Nitroaniline               | ND          | ug/kg   | 1810         | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 88-74-4   |      |
| 3-Nitroaniline               | ND          | ug/kg   | 1810         | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 99-09-2   |      |
| 4-Nitroaniline               | ND          | ug/kg   | 1810         | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 100-01-6  |      |
| Nitrobenzene                 | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 98-95-3   |      |
| 2-Nitrophenol                | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 88-75-5   |      |
| 4-Nitrophenol                | ND          | ug/kg   | 1810         | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 621-64-7  |      |
| N-Nitrosodiphenylamine       | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 86-30-6   |      |
| Pentachlorophenol            | ND          | ug/kg   | 1810         | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 87-86-5   |      |
| Phenanthrene                 | <b>710</b>  | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 85-01-8   |      |
| Phenol                       | <b>1960</b> | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 108-95-2  |      |
| Pyrene                       | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 129-00-0  |      |
| 2,4,5-Trichlorophenol        | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 95-95-4   |      |
| 2,4,6-Trichlorophenol        | ND          | ug/kg   | 374          | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 88-06-2   |      |
| <b>Surrogates</b>            |             |   |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)          | 64 %        |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)         | 69 %        |   | 31-94        | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 321-60-8  |      |
| p-Terphenyl-d14 (S)          | 92 %        |   | 26-110       | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 1718-51-0 |      |
| Phenol-d5 (S)                | 63 %        |   | 28-101       | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 4165-62-2 |      |
| 2-Fluorophenol (S)           | 59 %        |   | 24-104       | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)     | 64 %        |   | 16-122       | 1  | 06/25/14 12:30 | 06/27/14 23:11 | 118-79-6  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

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**Sample: P-8 RE(0-2)**      **Lab ID: 5099688012**      Collected: 06/20/14 08:45      Received: 06/21/14 10:54      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters              | Results     | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No. | Qual |
|-------------------------|-------------|----------------------------------|--------------|----|----------|----------------|---------|------|
| <b>Percent Moisture</b> |             | Analytical Method: ASTM D2974-87 |              |    |          |                |         |      |
| Percent Moisture        | <b>12.7</b> | %                                | 0.10         | 1  |          | 06/26/14 12:11 |         |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Sample Project No.: 5099688

| Sample: SOIL EQ BLANK                                    | Lab ID: 5099688013 | Collected: 06/20/14 11:25 | Received: 06/21/14 10:54 | Matrix: Water |                |                |            |      |
|--|--------------------|---------------------------|--------------------------|---------------|----------------|----------------|------------|------|
| Parameters   | Results            | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>8082 GCS PCB</b>                                      |                    |                           |                          |               |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3510 |                    |                           |                          |               |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                  | ND ug/L            |                           | 0.59                     | 1             | 06/23/14 15:00 | 06/24/14 20:34 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                  | ND ug/L            |                           | 0.59                     | 1             | 06/23/14 15:00 | 06/24/14 20:34 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                  | ND ug/L            |                           | 0.59                     | 1             | 06/23/14 15:00 | 06/24/14 20:34 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                  | ND ug/L            |                           | 0.59                     | 1             | 06/23/14 15:00 | 06/24/14 20:34 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                  | ND ug/L            |                           | 0.59                     | 1             | 06/23/14 15:00 | 06/24/14 20:34 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                  | ND ug/L            |                           | 0.59                     | 1             | 06/23/14 15:00 | 06/24/14 20:34 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                  | ND ug/L            |                           | 0.59                     | 1             | 06/23/14 15:00 | 06/24/14 20:34 | 11096-82-5 |      |
| <b>Surrogates</b>  |                    |                           |                          |               |                |                |            |      |
| Tetrachloro-m-xylene (S)                                 | 79 %.              |                           | 32-115                   | 1             | 06/23/14 15:00 | 06/24/14 20:34 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                      |                    |                           |                          |               |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                    |                           |                          |               |                |                |            |      |
| Antimony   | ND ug/L            |                           | 6.0                      | 1             | 06/24/14 14:44 | 06/25/14 14:30 | 7440-36-0  |      |
| Arsenic  | ND ug/L            |                           | 10.0                     | 1             | 06/24/14 14:44 | 06/25/14 14:30 | 7440-38-2  |      |
| Chromium   | ND ug/L            |                           | 10.0                     | 1             | 06/24/14 14:44 | 06/25/14 14:30 | 7440-47-3  |      |
| Cobalt   | ND ug/L            |                           | 10.0                     | 1             | 06/24/14 14:44 | 06/25/14 14:30 | 7440-48-4  |      |
| Iron   | ND ug/L            |                           | 100                      | 1             | 06/24/14 14:44 | 06/25/14 14:30 | 7439-89-6  |      |
| Lead   | ND ug/L            |                           | 10.0                     | 1             | 06/24/14 14:44 | 06/25/14 14:30 | 7439-92-1  |      |
| Selenium   | ND ug/L            |                           | 10.0                     | 1             | 06/24/14 14:44 | 06/25/14 14:30 | 7782-49-2  |      |
| Thallium   | ND ug/L            |                           | 10.0                     | 1             | 06/24/14 14:44 | 06/25/14 14:30 | 7440-28-0  |      |
| <b>8270 MSSV Semivolatile Organic</b>                    |                    |                           |                          |               |                |                |            |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                    |                           |                          |               |                |                |            |      |
| Acenaphthene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 83-32-9    |      |
| Acenaphthylene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 208-96-8   |      |
| Anthracene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 120-12-7   |      |
| Benzo(a)anthracene                                       | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 56-55-3    |      |
| Benzo(a)pyrene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 50-32-8    |      |
| Benzo(b)fluoranthene                                     | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                     | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 191-24-2   |      |
| Benzo(k)fluoranthene                                     | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 207-08-9   |      |
| Benzyl alcohol   | ND ug/L            |                           | 20.6                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 101-55-3   |      |
| Butylbenzylphthalate                                     | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                  | ND ug/L            |                           | 20.6                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 59-50-7    |      |
| 4-Chloroaniline  | ND ug/L            |                           | 20.6                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                               | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                 | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                           | ND ug/L            |                           | 5.2                      | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 108-60-1   |      |
| 2-Chloronaphthalene                                      | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 91-58-7    |      |
| 2-Chlorophenol   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                               | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 7005-72-3  |      |
| Chrysene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                    | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 53-70-3    |      |
| Dibenzofuran   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                   | ND ug/L            |                           | 20.6                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 91-94-1    |      |
| 2,4-Dichlorophenol                                       | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 120-83-2   |      |
| Diethylphthalate   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 84-66-2    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| Sample: SOIL EQ BLANK  | Lab ID: 5099688013 | Collected: 06/20/14 11:25 | Received: 06/21/14 10:54 | Matrix: Water |                |                |           |      |
|--|--------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters   | Results            | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                    |                           |                          |               |                |                |           |      |
| 2,4-Dimethylphenol   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 105-67-9  |      |
| Dimethylphthalate  | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 131-11-3  |      |
| Di-n-butylphthalate  | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND ug/L            |                           | 51.5                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND ug/L            |                           | 51.5                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 606-20-2  |      |
| Di-n-octylphthalate  | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND ug/L            |                           | 5.2                      | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 117-81-7  |      |
| Fluoranthene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 206-44-0  |      |
| Fluorene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND ug/L            |                           | 5.2                      | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 87-68-3   |      |
| Hexachlorobenzene  | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND ug/L            |                           | 20.6                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 77-47-4   |      |
| Hexachloroethane   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 193-39-5  |      |
| Isophorone   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND ug/L            |                           | 20.6                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 |           |      |
| Naphthalene  | ND ug/L            |                           | 5.2                      | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 91-20-3   |      |
| 2-Nitroaniline   | ND ug/L            |                           | 51.5                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 88-74-4   |      |
| 3-Nitroaniline   | ND ug/L            |                           | 51.5                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 99-09-2   |      |
| 4-Nitroaniline   | ND ug/L            |                           | 51.5                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 100-01-6  |      |
| Nitrobenzene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 98-95-3   |      |
| 2-Nitrophenol  | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 88-75-5   |      |
| 4-Nitrophenol  | ND ug/L            |                           | 51.5                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 86-30-6   |      |
| Pentachlorophenol  | ND ug/L            |                           | 51.5                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 87-86-5   |      |
| Phenanthrene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 85-01-8   |      |
| Phenol   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 108-95-2  |      |
| Pyrene   | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND ug/L            |                           | 10.3                     | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 88-06-2   |      |
| <b>Surrogates</b>  |                    |                           |                          |               |                |                |           |      |
| Nitrobenzene-d5 (S)  | 75 %.              |                           | 29-126                   | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 77 %.              |                           | 31-118                   | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 58 %.              |                           | 28-129                   | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 1718-51-0 |      |
| Phenol-d5 (S)  | 14 %.              |                           | 10-47                    | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 25 %.              |                           | 10-67                    | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 89 %.              |                           | 31-161                   | 1             | 06/24/14 10:38 | 06/24/14 21:06 | 118-79-6  |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260  |                    |                           |                          |               |                |                |           |      |
| Acetone  | ND ug/L            |                           | 100                      | 1             |                | 07/01/14 18:25 | 67-64-1   |      |
| Acrolein   | ND ug/L            |                           | 50.0                     | 1             |                | 07/01/14 18:25 | 107-02-8  |      |
| Acrylonitrile  | ND ug/L            |                           | 100                      | 1             |                | 07/01/14 18:25 | 107-13-1  |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| Sample: SOIL EQ BLANK       |         | Lab ID: 5099688013          | Collected: 06/20/14 11:25 | Received: 06/21/14 10:54 | Matrix: Water |                |            |      |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                  | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                     | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 71-43-2    |      |
| Bromobenzene                | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 108-86-1   |      |
| Bromochloromethane          | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 74-97-5    |      |
| Bromodichloromethane        | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 75-27-4    |      |
| Bromoform                   | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 75-25-2    |      |
| Bromomethane                | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND ug/L |                             | 25.0                      | 1                        |               | 07/01/14 18:25 | 78-93-3    |      |
| n-Butylbenzene              | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 104-51-8   |      |
| sec-Butylbenzene            | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 135-98-8   |      |
| tert-Butylbenzene           | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 98-06-6    |      |
| Carbon disulfide            | ND ug/L |                             | 10.0                      | 1                        |               | 07/01/14 18:25 | 75-15-0    |      |
| Carbon tetrachloride        | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 56-23-5    |      |
| Chlorobenzene               | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 108-90-7   |      |
| Chloroethane                | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 75-00-3    |      |
| Chloroform                  | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 67-66-3    |      |
| Chloromethane               | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 74-87-3    |      |
| 2-Chlorotoluene             | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 95-49-8    |      |
| 4-Chlorotoluene             | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 106-43-4   |      |
| Dibromochloromethane        | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 106-93-4   |      |
| Dibromomethane              | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND ug/L |                             | 100                       | 1                        |               | 07/01/14 18:25 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 100-41-4   |      |
| Ethyl methacrylate          | ND ug/L |                             | 100                       | 1                        |               | 07/01/14 18:25 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 87-68-3    |      |
| n-Hexane                    | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 110-54-3   | N2   |
| 2-Hexanone                  | ND ug/L |                             | 25.0                      | 1                        |               | 07/01/14 18:25 | 591-78-6   |      |
| Iodomethane                 | ND ug/L |                             | 10.0                      | 1                        |               | 07/01/14 18:25 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 98-82-8    |      |
| p-Isopropyltoluene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 99-87-6    |      |
| Methylene Chloride          | ND ug/L |                             | 5.0                       | 1                        |               | 07/01/14 18:25 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L |                             | 25.0                      | 1                        |               | 07/01/14 18:25 | 108-10-1   |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| Sample: SOIL EQ BLANK     |         | Lab ID: 5099688013          | Collected: 06/20/14 11:25 | Received: 06/21/14 10:54 | Matrix: Water |                |           |      |
|---------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters                | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>           |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Methyl-tert-butyl ether   | ND      | ug/L                        | 4.0                       | 1                        |               | 07/01/14 18:25 | 1634-04-4 |      |
| Naphthalene               | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 91-20-3   |      |
| n-Propylbenzene           | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 103-65-1  |      |
| Styrene                   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 79-34-5   |      |
| Tetrachloroethene         | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 127-18-4  |      |
| Toluene                   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene    | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene    | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 120-82-1  |      |
| 1,1,1-Trichloroethane     | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 71-55-6   |      |
| 1,1,2-Trichloroethane     | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 79-00-5   |      |
| Trichloroethene           | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 79-01-6   |      |
| Trichlorofluoromethane    | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 75-69-4   |      |
| 1,2,3-Trichloropropane    | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene    | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene    | ND      | ug/L                        | 5.0                       | 1                        |               | 07/01/14 18:25 | 108-67-8  |      |
| Vinyl acetate             | ND      | ug/L                        | 50.0                      | 1                        |               | 07/01/14 18:25 | 108-05-4  |      |
| Vinyl chloride            | ND      | ug/L                        | 2.0                       | 1                        |               | 07/01/14 18:25 | 75-01-4   |      |
| Xylene (Total)            | ND      | ug/L                        | 10.0                      | 1                        |               | 07/01/14 18:25 | 1330-20-7 |      |
| <b>Surrogates</b>         |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S)  | 101 %   |                             | 79-116                    | 1                        |               | 07/01/14 18:25 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S)  | 89 %    |                             | 80-114                    | 1                        |               | 07/01/14 18:25 | 460-00-4  |      |
| Toluene-d8 (S)            | 96 %    |                             | 81-110                    | 1                        |               | 07/01/14 18:25 | 2037-26-5 |      |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

QC Batch: MPRP/13629 Analysis Method: EPA 6010  
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
 Associated Lab Samples: 5099688001, 5099688002, 5099688003, 5099688004, 5099688005, 5099688006, 5099688007, 5099688008, 5099688009, 5099688010, 5099688011, 5099688012

METHOD BLANK: 1115936 Matrix: Solid  
 Associated Lab Samples: 5099688001, 5099688002, 5099688003, 5099688004, 5099688005, 5099688006, 5099688007, 5099688008, 5099688009, 5099688010, 5099688011, 5099688012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Antimony  | mg/kg | ND           | 1.0             | 06/24/14 10:25 |            |
| Arsenic   | mg/kg | ND           | 1.0             | 06/24/14 10:25 |            |
| Chromium  | mg/kg | ND           | 1.0             | 06/24/14 10:25 |            |
| Cobalt    | mg/kg | ND           | 1.0             | 06/24/14 10:25 |            |
| Iron      | mg/kg | ND           | 50.0            | 06/24/14 10:25 |            |
| Lead      | mg/kg | ND           | 1.0             | 06/24/14 10:25 |            |
| Selenium  | mg/kg | ND           | 1.0             | 06/24/14 10:25 |            |
| Thallium  | mg/kg | ND           | 1.0             | 06/24/14 10:25 |            |

LABORATORY CONTROL SAMPLE: 1115937

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Antimony  | mg/kg | 50          | 50.2       | 100       | 80-120       |            |
| Arsenic   | mg/kg | 50          | 51.4       | 103       | 80-120       |            |
| Chromium  | mg/kg | 50          | 49.6       | 99        | 80-120       |            |
| Cobalt    | mg/kg | 50          | 49.9       | 100       | 80-120       |            |
| Iron      | mg/kg | 500         | 502        | 100       | 80-120       |            |
| Lead      | mg/kg | 50          | 50.2       | 100       | 80-120       |            |
| Selenium  | mg/kg | 50          | 50.6       | 101       | 80-120       |            |
| Thallium  | mg/kg | 50          | 49.5       | 99        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1115938 1115939

| Parameter | Units | MS                |             | MSD         |            | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       | 5099697001 Result | Spike Conc. | Spike Conc. | MSD Result |           |            |          |           |              |     |         |      |
| Antimony  | mg/kg | ND                | 53.8        | 53.1        | 12.6       | 13.2      | 23         | 25       | 75-125    | 5            | 20  | M3      |      |
| Arsenic   | mg/kg | 9.0               | 53.8        | 53.1        | 56.6       | 55.3      | 88         | 87       | 75-125    | 2            | 20  |         |      |
| Chromium  | mg/kg | 18.8              | 53.8        | 53.1        | 64.7       | 65.0      | 85         | 87       | 75-125    | 0            | 20  |         |      |
| Cobalt    | mg/kg | 11.6              | 53.8        | 53.1        | 55.6       | 54.8      | 82         | 81       | 75-125    | 1            | 20  |         |      |
| Iron      | mg/kg | 23600             | 538         | 531         | 19600      | 19100     | -740       | -837     | 75-125    | 2            | 20  | P6      |      |
| Lead      | mg/kg | 11.4              | 53.8        | 53.1        | 56.1       | 56.0      | 83         | 84       | 75-125    | 0            | 20  |         |      |
| Selenium  | mg/kg | ND                | 53.8        | 53.1        | 47.9       | 47.5      | 89         | 89       | 75-125    | 1            | 20  |         |      |
| Thallium  | mg/kg | 4.0               | 53.8        | 53.1        | 50.0       | 50.7      | 85         | 88       | 75-125    | 1            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1115940 |       |                      | 1115941        |                |        |        |       |       |        |     |     |      |
|--|-------|----------------------|----------------|----------------|--------|--------|-------|-------|--------|-----|-----|------|
| Parameter                                      | Units | 5099688001<br>Result | MS             | MSD            | MS     | MSD    | MS    | MSD   | % Rec  | Max |     |      |
|  |       |                      | Spike<br>Conc. | Spike<br>Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Antimony                                       | mg/kg | ND                   | 46             | 44.3           | 34.7   | 31.9   | 75    | 72    | 75-125 | 8   | 20  | M0   |
| Arsenic  | mg/kg | 1.6                  | 46             | 44.3           | 48.6   | 47.5   | 102   | 104   | 75-125 | 2   | 20  |      |
| Chromium                                       | mg/kg | 2.6                  | 46             | 44.3           | 44.9   | 42.7   | 92    | 91    | 75-125 | 5   | 20  |      |
| Cobalt   | mg/kg | 1.2                  | 46             | 44.3           | 44.6   | 42.9   | 94    | 94    | 75-125 | 4   | 20  |      |
| Iron   | mg/kg | 2980                 | 460            | 443            | 3580   | 3990   | 129   | 227   | 75-125 | 11  | 20  | P6   |
| Lead   | mg/kg | 1.9                  | 46             | 44.3           | 46.1   | 45.7   | 96    | 99    | 75-125 | 1   | 20  |      |
| Selenium                                       | mg/kg | ND                   | 46             | 44.3           | 47.4   | 46.1   | 103   | 104   | 75-125 | 3   | 20  |      |
| Thallium                                       | mg/kg | 1.8                  | 46             | 44.3           | 45.8   | 43.9   | 96    | 95    | 75-125 | 4   | 20  |      |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1115942 |       |                      | 1115943        |                |        |        |       |       |        |     |     |       |
|--|-------|----------------------|----------------|----------------|--------|--------|-------|-------|--------|-----|-----|-------|
| Parameter                                      | Units | 5099688008<br>Result | MS             | MSD            | MS     | MSD    | MS    | MSD   | % Rec  | Max |     |       |
|  |       |                      | Spike<br>Conc. | Spike<br>Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual  |
| Antimony                                       | mg/kg | ND                   | 51.5           | 52.4           | 29.5   | 27.5   | 56    | 51    | 75-125 | 7   | 20  | M3    |
| Arsenic  | mg/kg | 6.3                  | 51.5           | 52.4           | 57.6   | 59.2   | 100   | 101   | 75-125 | 3   | 20  |       |
| Chromium                                       | mg/kg | 27.5                 | 51.5           | 52.4           | 70.0   | 77.6   | 83    | 96    | 75-125 | 10  | 20  |       |
| Cobalt   | mg/kg | 4.6                  | 51.5           | 52.4           | 53.5   | 54.3   | 95    | 95    | 75-125 | 2   | 20  |       |
| Iron   | mg/kg | 32700                | 515            | 524            | 23900  | 34900  | -1710 | 424   | 75-125 | 38  | 20  | 3d,P6 |
| Lead   | mg/kg | 127                  | 51.5           | 52.4           | 153    | 179    | 50    | 98    | 75-125 | 15  | 20  |       |
| Selenium                                       | mg/kg | ND                   | 51.5           | 52.4           | 52.1   | 51.8   | 101   | 99    | 75-125 | 1   | 20  |       |
| Thallium                                       | mg/kg | 2.3                  | 51.5           | 52.4           | 51.3   | 51.5   | 95    | 94    | 75-125 | 0   | 20  |       |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

QC Batch: MPRP/13638 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Associated Lab Samples: 5099688013

METHOD BLANK: 1116762 Matrix: Water  
Associated Lab Samples: 5099688013

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Antimony  | ug/L  | ND           | 6.0             | 06/25/14 15:09 |            |
| Arsenic   | ug/L  | ND           | 10.0            | 06/25/14 15:09 |            |
| Chromium  | ug/L  | ND           | 10.0            | 06/25/14 15:09 |            |
| Cobalt    | ug/L  | ND           | 10.0            | 06/25/14 15:09 |            |
| Iron      | ug/L  | ND           | 100             | 06/25/14 15:09 |            |
| Lead      | ug/L  | ND           | 10.0            | 06/25/14 15:09 |            |
| Selenium  | ug/L  | ND           | 10.0            | 06/25/14 15:09 |            |
| Thallium  | ug/L  | ND           | 10.0            | 06/25/14 15:09 |            |

LABORATORY CONTROL SAMPLE: 1116763

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Antimony  | ug/L  | 1000        | 1010       | 101       | 80-120       |            |
| Arsenic   | ug/L  | 1000        | 999        | 100       | 80-120       |            |
| Chromium  | ug/L  | 1000        | 982        | 98        | 80-120       |            |
| Cobalt    | ug/L  | 1000        | 990        | 99        | 80-120       |            |
| Iron      | ug/L  | 10000       | 10100      | 101       | 80-120       |            |
| Lead      | ug/L  | 1000        | 948        | 95        | 80-120       |            |
| Selenium  | ug/L  | 1000        | 981        | 98        | 80-120       |            |
| Thallium  | ug/L  | 1000        | 950        | 95        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1116764 1116765

| Parameter | Units | 5099737001 |       | MS          |             | MSD    |        | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual  |
|-----------|-------|------------|-------|-------------|-------------|--------|--------|----------|-----------|--------------|---------|-------|
|           |       | Result     | Conc. | Spike Conc. | Spike Conc. | Result | Result |          |           |              |         |       |
| Antimony  | ug/L  | ND         | 1000  | 1000        | 1000        | 1040   | 1040   | 104      | 104       | 75-125       | 0       | 20    |
| Arsenic   | ug/L  | 0.0054     | 1000  | 1000        | 1000        | 1040   | 1050   | 104      | 104       | 75-125       | 0       | 20    |
| Chromium  | ug/L  | ND         | 1000  | 1000        | 1000        | 1000   | 999    | 100      | 99        | 75-125       | 1       | 20    |
| Cobalt    | ug/L  | 0.013      | 1000  | 1000        | 1000        | 1010   | 1000   | 99       | 99        | 75-125       | 0       | 20    |
| Iron      | ug/L  | 13.2       | 10000 | 10000       | 10000       | 25300  | 25800  | 122      | 126       | 75-125       | 2       | 20 M0 |
| Lead      | ug/L  | ND         | 1000  | 1000        | 1000        | 949    | 944    | 95       | 94        | 75-125       | 0       | 20    |
| Selenium  | ug/L  | ND         | 1000  | 1000        | 1000        | 1010   | 1000   | 101      | 100       | 75-125       | 1       | 20    |
| Thallium  | ug/L  | ND         | 1000  | 1000        | 1000        | 946    | 943    | 95       | 94        | 75-125       | 0       | 20    |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

QC Batch: MSV/66354 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 5099688013

METHOD BLANK: 1121182 Matrix: Water

Associated Lab Samples: 5099688013

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,1,2-Trichloroethane       | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,1-Dichloroethane          | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,1-Dichloroethene          | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,2-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,2-Dichloroethane          | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,2-Dichloropropane         | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,3-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 1,4-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| 2-Butanone (MEK)            | ug/L  | ND           | 25.0            | 07/01/14 13:33 |            |
| 2-Hexanone                  | ug/L  | ND           | 25.0            | 07/01/14 13:33 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND           | 25.0            | 07/01/14 13:33 |            |
| Acetone                     | ug/L  | ND           | 100             | 07/01/14 13:33 |            |
| Benzene                     | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Bromodichloromethane        | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Bromoform                   | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Bromomethane                | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Carbon disulfide            | ug/L  | ND           | 10.0            | 07/01/14 13:33 |            |
| Carbon tetrachloride        | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Chlorobenzene               | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Chloroethane                | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Chloroform                  | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Chloromethane               | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| cis-1,2-Dichloroethene      | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| cis-1,3-Dichloropropene     | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Dibromochloromethane        | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Dichlorodifluoromethane     | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Ethylbenzene                | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Isopropylbenzene (Cumene)   | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Methyl-tert-butyl ether     | ug/L  | ND           | 4.0             | 07/01/14 13:33 |            |
| Methylene Chloride          | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Styrene                     | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Tetrachloroethene           | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Toluene                     | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| trans-1,2-Dichloroethene    | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| trans-1,3-Dichloropropene   | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Trichloroethene             | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |
| Trichlorofluoromethane      | ug/L  | ND           | 5.0             | 07/01/14 13:33 |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

METHOD BLANK: 1121182

Matrix: Water

Associated Lab Samples: 5099688013

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| Vinyl chloride           | ug/L  | ND           | 2.0             | 07/01/14 13:33 |            |
| Xylene (Total)           | ug/L  | ND           | 10.0            | 07/01/14 13:33 |            |
| 4-Bromofluorobenzene (S) | %     | 93           | 80-114          | 07/01/14 13:33 |            |
| Dibromofluoromethane (S) | %     | 98           | 79-116          | 07/01/14 13:33 |            |
| Toluene-d8 (S)           | %     | 96           | 81-110          | 07/01/14 13:33 |            |

LABORATORY CONTROL SAMPLE: 1121183

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | 50          | 56.4       | 113       | 71-129       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 50          | 55.3       | 111       | 66-126       |            |
| 1,1,2-Trichloroethane       | ug/L  | 50          | 50.7       | 101       | 77-130       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 54.1       | 108       | 75-130       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 49.2       | 98        | 68-127       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 43.5       | 87        | 68-131       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 55.5       | 111       | 76-125       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 52.8       | 106       | 75-123       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 47.8       | 96        | 75-128       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 52.8       | 106       | 74-121       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 50.8       | 102       | 74-122       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 50.6       | 101       | 76-120       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 304        | 121       | 58-139       |            |
| 2-Hexanone                  | ug/L  | 250         | 339        | 136       | 54-140       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 325        | 130       | 58-138       |            |
| Acetone                     | ug/L  | 250         | 320        | 128       | 49-150       |            |
| Benzene                     | ug/L  | 50          | 52.9       | 106       | 74-122       |            |
| Bromodichloromethane        | ug/L  | 50          | 56.2       | 112       | 62-136       |            |
| Bromoform                   | ug/L  | 50          | 44.3       | 89        | 44-134       |            |
| Bromomethane                | ug/L  | 50          | 79.9       | 160       | 22-181       |            |
| Carbon disulfide            | ug/L  | 100         | 113        | 113       | 59-132       |            |
| Carbon tetrachloride        | ug/L  | 50          | 56.3       | 113       | 56-137       |            |
| Chlorobenzene               | ug/L  | 50          | 50.4       | 101       | 78-123       |            |
| Chloroethane                | ug/L  | 50          | 46.1       | 92        | 60-144       |            |
| Chloroform                  | ug/L  | 50          | 50.1       | 100       | 78-126       |            |
| Chloromethane               | ug/L  | 50          | 50.2       | 100       | 42-134       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 51.5       | 103       | 75-122       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | 47.9       | 96        | 64-126       |            |
| Dibromochloromethane        | ug/L  | 50          | 44.8       | 90        | 58-128       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 54.5       | 109       | 35-181       |            |
| Ethylbenzene                | ug/L  | 50          | 55.3       | 111       | 66-133       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 56.0       | 112       | 69-124       |            |
| Methyl-tert-butyl ether     | ug/L  | 100         | 98.4       | 98        | 69-122       |            |
| Methylene Chloride          | ug/L  | 50          | 49.5       | 99        | 68-132       |            |
| Styrene                     | ug/L  | 50          | 53.8       | 108       | 74-126       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

LABORATORY CONTROL SAMPLE: 1121183

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Tetrachloroethene         | ug/L  | 50          | 48.4       | 97        | 69-130       |            |
| Toluene                   | ug/L  | 50          | 51.4       | 103       | 72-122       |            |
| trans-1,2-Dichloroethene  | ug/L  | 50          | 47.8       | 96        | 72-124       |            |
| trans-1,3-Dichloropropene | ug/L  | 50          | 45.3       | 91        | 64-121       |            |
| Trichloroethene           | ug/L  | 50          | 50.5       | 101       | 76-126       |            |
| Trichlorofluoromethane    | ug/L  | 50          | 49.9       | 100       | 76-149       |            |
| Vinyl chloride            | ug/L  | 50          | 52.0       | 104       | 59-126       |            |
| Xylene (Total)            | ug/L  | 150         | 174        | 116       | 70-124       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 106       | 80-114       |            |
| Dibromofluoromethane (S)  | %     |             |            | 99        | 79-116       |            |
| Toluene-d8 (S)            | %     |             |            | 100       | 81-110       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

QC Batch: MSV/66411 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 5099688001, 5099688002, 5099688003, 5099688004

METHOD BLANK: 1122044 Matrix: Solid  
 Associated Lab Samples: 5099688001, 5099688002, 5099688003, 5099688004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 07/02/14 11:09 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 07/02/14 11:09 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 07/02/14 11:09 |            |
| Acetone                     | ug/kg | ND           | 100             | 07/02/14 11:09 |            |
| Acrolein                    | ug/kg | ND           | 100             | 07/02/14 11:09 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 07/02/14 11:09 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 07/02/14 11:09 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

METHOD BLANK: 1122044

Matrix: Solid

Associated Lab Samples: 5099688001, 5099688002, 5099688003, 5099688004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 07/02/14 11:09 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 07/02/14 11:09 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 07/02/14 11:09 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 07/02/14 11:09 | N2         |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 07/02/14 11:09 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 07/02/14 11:09 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 07/02/14 11:09 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 07/02/14 11:09 |            |
| 4-Bromofluorobenzene (S)    | %     | 99           | 56-144          | 07/02/14 11:09 |            |
| Dibromofluoromethane (S)    | %     | 94           | 85-118          | 07/02/14 11:09 |            |
| Toluene-d8 (S)              | %     | 94           | 71-128          | 07/02/14 11:09 |            |

LABORATORY CONTROL SAMPLE: 1122045

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/kg | 50          | 44.4       | 89        | 62-123       |            |
| 1,1,1-Trichloroethane     | ug/kg | 50          | 41.3       | 83        | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 38.9       | 78        | 65-124       |            |
| 1,1,2-Trichloroethane     | ug/kg | 50          | 41.6       | 83        | 74-129       |            |
| 1,1-Dichloroethane        | ug/kg | 50          | 42.6       | 85        | 73-130       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 43.2       | 86        | 66-126       |            |
| 1,1-Dichloropropene       | ug/kg | 50          | 41.4       | 83        | 78-125       |            |
| 1,2,3-Trichlorobenzene    | ug/kg | 50          | 44.8       | 90        | 66-131       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

LABORATORY CONTROL SAMPLE: 1122045

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,3-Trichloropropane      | ug/kg | 50          | 37.7       | 75        | 44-157       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 50          | 45.4       | 91        | 68-129       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 50          | 41.7       | 83        | 67-126       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 50          | 45.7       | 91        | 74-120       |            |
| 1,2-Dichlorobenzene         | ug/kg | 50          | 41.9       | 84        | 73-122       |            |
| 1,2-Dichloroethane          | ug/kg | 50          | 39.4       | 79        | 73-127       |            |
| 1,2-Dichloropropane         | ug/kg | 50          | 44.4       | 89        | 75-118       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 50          | 40.2       | 80        | 65-127       |            |
| 1,3-Dichlorobenzene         | ug/kg | 50          | 41.3       | 83        | 73-121       |            |
| 1,3-Dichloropropane         | ug/kg | 50          | 41.0       | 82        | 72-121       |            |
| 1,4-Dichlorobenzene         | ug/kg | 50          | 41.8       | 84        | 75-119       |            |
| 2,2-Dichloropropane         | ug/kg | 50          | 45.9       | 92        | 63-122       |            |
| 2-Butanone (MEK)            | ug/kg | 250         | 238        | 95        | 59-139       |            |
| 2-Chlorotoluene             | ug/kg | 50          | 39.6       | 79        | 72-121       |            |
| 2-Hexanone                  | ug/kg | 250         | 229        | 92        | 56-139       |            |
| 4-Chlorotoluene             | ug/kg | 50          | 41.5       | 83        | 75-123       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 250         | 214        | 86        | 63-136       |            |
| Acetone                     | ug/kg | 250         | 299        | 120       | 46-156       |            |
| Acrolein                    | ug/kg | 1000        | 1370       | 137       | 47-200       |            |
| Acrylonitrile               | ug/kg | 1000        | 900        | 90        | 67-130       |            |
| Benzene                     | ug/kg | 50          | 46.1       | 92        | 74-119       |            |
| Bromobenzene                | ug/kg | 50          | 41.9       | 84        | 69-129       |            |
| Bromochloromethane          | ug/kg | 50          | 44.1       | 88        | 67-129       |            |
| Bromodichloromethane        | ug/kg | 50          | 41.4       | 83        | 68-121       |            |
| Bromoform                   | ug/kg | 50          | 38.3       | 77        | 49-124       |            |
| Bromomethane                | ug/kg | 50          | 41.2       | 82        | 44-142       |            |
| Carbon disulfide            | ug/kg | 100         | 89.4       | 89        | 61-129       |            |
| Carbon tetrachloride        | ug/kg | 50          | 39.0       | 78        | 58-127       |            |
| Chlorobenzene               | ug/kg | 50          | 42.1       | 84        | 77-122       |            |
| Chloroethane                | ug/kg | 50          | 52.5       | 105       | 59-141       |            |
| Chloroform                  | ug/kg | 50          | 40.5       | 81        | 75-124       |            |
| Chloromethane               | ug/kg | 50          | 48.9       | 98        | 46-133       |            |
| cis-1,2-Dichloroethene      | ug/kg | 50          | 42.0       | 84        | 72-122       |            |
| cis-1,3-Dichloropropene     | ug/kg | 50          | 39.0       | 78        | 68-115       |            |
| Dibromochloromethane        | ug/kg | 50          | 37.0       | 74        | 60-121       |            |
| Dibromomethane              | ug/kg | 50          | 39.6       | 79        | 72-124       |            |
| Dichlorodifluoromethane     | ug/kg | 50          | 33.1       | 66        | 26-186       |            |
| Ethyl methacrylate          | ug/kg | 200         | 157        | 79        | 63-130       |            |
| Ethylbenzene                | ug/kg | 50          | 42.4       | 85        | 72-123       |            |
| Hexachloro-1,3-butadiene    | ug/kg | 50          | 45.4       | 91        | 55-139       |            |
| Iodomethane                 | ug/kg | 100         | 87.1J      | 87        | 38-149       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 50          | 44.2       | 88        | 65-123       |            |
| Methyl-tert-butyl ether     | ug/kg | 100         | 86.0       | 86        | 68-120       |            |
| Methylene Chloride          | ug/kg | 50          | 34.9       | 70        | 57-142       |            |
| n-Butylbenzene              | ug/kg | 50          | 40.3       | 81        | 68-125       |            |
| n-Hexane                    | ug/kg | 50          | 39.2       | 78        | 57-117 N2    |            |
| n-Propylbenzene             | ug/kg | 50          | 41.1       | 82        | 68-122       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

LABORATORY CONTROL SAMPLE: 1122045

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Naphthalene                 | ug/kg | 50          | 43.1       | 86        | 67-131       |            |
| p-Isopropyltoluene          | ug/kg | 50          | 40.4       | 81        | 66-133       |            |
| sec-Butylbenzene            | ug/kg | 50          | 40.9       | 82        | 64-131       |            |
| Styrene                     | ug/kg | 50          | 44.4       | 89        | 70-126       |            |
| tert-Butylbenzene           | ug/kg | 50          | 34.3       | 69        | 46-124       |            |
| Tetrachloroethene           | ug/kg | 50          | 43.5       | 87        | 72-126       |            |
| Toluene                     | ug/kg | 50          | 41.1       | 82        | 71-121       |            |
| trans-1,2-Dichloroethene    | ug/kg | 50          | 41.8       | 84        | 69-123       |            |
| trans-1,3-Dichloropropene   | ug/kg | 50          | 39.6       | 79        | 66-114       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 200         | 152        | 76        | 61-124       |            |
| Trichloroethene             | ug/kg | 50          | 42.9       | 86        | 74-123       |            |
| Trichlorofluoromethane      | ug/kg | 50          | 42.2       | 84        | 72-146       |            |
| Vinyl acetate               | ug/kg | 200         | 188        | 94        | 57-131       |            |
| Vinyl chloride              | ug/kg | 50          | 50.8       | 102       | 55-128       |            |
| Xylene (Total)              | ug/kg | 150         | 131        | 87        | 66-124       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 102       | 56-144       |            |
| Dibromofluoromethane (S)    | %     |             |            | 99        | 85-118       |            |
| Toluene-d8 (S)              | %     |             |            | 97        | 71-128       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1122046 1122047

| Parameter                 | Units | 5099718001 |             | MSD         |        | MS     |       | MSD   |        | % Rec Limits | RPD | RPD | Qual |
|---------------------------|-------|------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|-----|-----|------|
|                           |       | Result     | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec |        |              |     |     |      |
| 1,1,1,2-Tetrachloroethane | ug/kg | ND         | 45.2        | 41          | 39.3   | 36.0   | 87    | 88    | 10-129 | 9            | 20  |     |      |
| 1,1,1-Trichloroethane     | ug/kg | ND         | 45.2        | 41          | 38.4   | 34.9   | 85    | 85    | 26-143 | 9            | 20  |     |      |
| 1,1,2,2-Tetrachloroethane | ug/kg | ND         | 45.2        | 41          | 36.0   | 32.2   | 80    | 78    | 10-156 | 11           | 20  |     |      |
| 1,1,2-Trichloroethane     | ug/kg | ND         | 45.2        | 41          | 36.5   | 33.5   | 81    | 81    | 13-156 | 9            | 20  |     |      |
| 1,1-Dichloroethane        | ug/kg | ND         | 45.2        | 41          | 38.9   | 34.9   | 86    | 85    | 36-150 | 11           | 20  |     |      |
| 1,1-Dichloroethene        | ug/kg | ND         | 45.2        | 41          | 40.7   | 36.6   | 90    | 89    | 31-146 | 10           | 20  |     |      |
| 1,1-Dichloropropene       | ug/kg | ND         | 45.2        | 41          | 38.1   | 34.9   | 84    | 85    | 26-145 | 9            | 20  |     |      |
| 1,2,3-Trichlorobenzene    | ug/kg | ND         | 45.2        | 41          | 38.6   | 33.7   | 85    | 82    | 10-119 | 13           | 20  |     |      |
| 1,2,3-Trichloropropane    | ug/kg | ND         | 45.2        | 41          | 38.6   | 32.3   | 85    | 79    | 10-168 | 18           | 20  |     |      |
| 1,2,4-Trichlorobenzene    | ug/kg | ND         | 45.2        | 41          | 38.8   | 34.3   | 86    | 83    | 10-122 | 12           | 20  |     |      |
| 1,2,4-Trimethylbenzene    | ug/kg | ND         | 45.2        | 41          | 37.4   | 33.4   | 83    | 81    | 10-139 | 11           | 20  |     |      |
| 1,2-Dibromoethane (EDB)   | ug/kg | ND         | 45.2        | 41          | 39.8   | 35.9   | 88    | 87    | 15-136 | 10           | 20  |     |      |
| 1,2-Dichlorobenzene       | ug/kg | ND         | 45.2        | 41          | 36.4   | 33.3   | 81    | 81    | 10-132 | 9            | 20  |     |      |
| 1,2-Dichloroethane        | ug/kg | ND         | 45.2        | 41          | 35.8   | 33.2   | 79    | 81    | 30-140 | 7            | 20  |     |      |
| 1,2-Dichloropropane       | ug/kg | ND         | 45.2        | 41          | 40.9   | 37.0   | 90    | 90    | 29-135 | 10           | 20  |     |      |
| 1,3,5-Trimethylbenzene    | ug/kg | ND         | 45.2        | 41          | 36.8   | 32.7   | 81    | 80    | 10-143 | 12           | 20  |     |      |
| 1,3-Dichlorobenzene       | ug/kg | ND         | 45.2        | 41          | 36.0   | 32.6   | 80    | 79    | 10-130 | 10           | 20  |     |      |
| 1,3-Dichloropropane       | ug/kg | ND         | 45.2        | 41          | 35.1   | 32.8   | 78    | 80    | 17-139 | 7            | 20  |     |      |
| 1,4-Dichlorobenzene       | ug/kg | ND         | 45.2        | 41          | 36.4   | 33.1   | 81    | 80    | 10-128 | 10           | 20  |     |      |
| 2,2-Dichloropropane       | ug/kg | ND         | 45.2        | 41          | 42.0   | 38.7   | 93    | 94    | 29-136 | 8            | 20  |     |      |
| 2-Butanone (MEK)          | ug/kg | ND         | 227         | 206         | 205    | 193    | 91    | 94    | 22-176 | 6            | 20  |     |      |
| 2-Chlorotoluene           | ug/kg | ND         | 45.2        | 41          | 35.3   | 32.2   | 78    | 78    | 10-146 | 9            | 20  |     |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1122046 1122047 |       |            |       |       |        |        |        |        |        |        |     |      |
|--|-------|------------|-------|-------|--------|--------|--------|--------|--------|--------|-----|------|
| Parameter  | Units | MS         |       | MSD   |        | MS     | MSD    | MS     | MSD    | % Rec  | Max | Qual |
|  |       | 5099718001 | Spike | Spike | MS     |        |        |        |        |        |     |      |
|  |       | Result     | Conc. | Conc. | Result | Result | Result | Result | Result | Limits | RPD | RPD  |
| 2-Hexanone   | ug/kg | ND         | 227   | 206   | 197    | 183    | 87     | 89     | 12-165 | 8      | 20  |      |
| 4-Chlorotoluene  | ug/kg | ND         | 45.2  | 41    | 36.9   | 33.7   | 82     | 82     | 10-138 | 9      | 20  |      |
| 4-Methyl-2-pentanone (MIBK)                            | ug/kg | ND         | 227   | 206   | 186    | 180    | 82     | 87     | 22-155 | 3      | 20  |      |
| Acetone  | ug/kg | ND         | 227   | 206   | 238    | 205    | 105    | 100    | 11-200 | 15     | 20  |      |
| Acrolein   | ug/kg | ND         | 905   | 822   | 1250   | 1180   | 138    | 144    | 10-200 | 6      | 20  |      |
| Acrylonitrile  | ug/kg | ND         | 905   | 822   | 808    | 761    | 89     | 93     | 20-150 | 6      | 20  |      |
| Benzene  | ug/kg | ND         | 45.2  | 41    | 42.1   | 37.8   | 93     | 92     | 27-140 | 11     | 20  |      |
| Bromobenzene   | ug/kg | ND         | 45.2  | 41    | 36.2   | 32.9   | 80     | 80     | 10-133 | 10     | 20  |      |
| Bromochloromethane                                     | ug/kg | ND         | 45.2  | 41    | 40.5   | 37.3   | 89     | 91     | 28-142 | 8      | 20  |      |
| Bromodichloromethane                                   | ug/kg | ND         | 45.2  | 41    | 37.9   | 35.4   | 84     | 86     | 13-139 | 7      | 20  |      |
| Bromoform  | ug/kg | ND         | 45.2  | 41    | 34.8   | 32.1   | 77     | 78     | 10-122 | 8      | 20  |      |
| Bromomethane   | ug/kg | ND         | 45.2  | 41    | 37.2   | 35.2   | 82     | 86     | 10-154 | 6      | 20  |      |
| Carbon disulfide                                       | ug/kg | ND         | 90.5  | 82.2  | 84.9   | 77.3   | 94     | 94     | 20-142 | 9      | 20  |      |
| Carbon tetrachloride                                   | ug/kg | ND         | 45.2  | 41    | 36.6   | 33.0   | 81     | 80     | 19-135 | 10     | 20  |      |
| Chlorobenzene  | ug/kg | ND         | 45.2  | 41    | 36.9   | 34.3   | 82     | 84     | 10-136 | 7      | 20  |      |
| Chloroethane   | ug/kg | ND         | 45.2  | 41    | 49.0   | 44.6   | 108    | 109    | 24-161 | 10     | 20  |      |
| Chloroform   | ug/kg | ND         | 45.2  | 41    | 37.0   | 33.7   | 82     | 82     | 36-138 | 9      | 20  |      |
| Chloromethane  | ug/kg | ND         | 45.2  | 41    | 45.6   | 42.2   | 101    | 103    | 28-143 | 8      | 20  |      |
| cis-1,2-Dichloroethene                                 | ug/kg | ND         | 45.2  | 41    | 37.9   | 35.1   | 84     | 85     | 29-136 | 8      | 20  |      |
| cis-1,3-Dichloropropene                                | ug/kg | ND         | 45.2  | 41    | 34.1   | 31.7   | 75     | 77     | 10-130 | 7      | 20  |      |
| Dibromochloromethane                                   | ug/kg | ND         | 45.2  | 41    | 33.0   | 31.0   | 73     | 76     | 10-124 | 6      | 20  |      |
| Dibromomethane   | ug/kg | ND         | 45.2  | 41    | 36.8   | 33.9   | 81     | 82     | 24-136 | 8      | 20  |      |
| Dichlorodifluoromethane                                | ug/kg | ND         | 45.2  | 41    | 32.6   | 30.1   | 72     | 73     | 15-187 | 8      | 20  |      |
| Ethyl methacrylate                                     | ug/kg | ND         | 181   | 164   | 137    | 129    | 76     | 79     | 10-147 | 6      | 20  |      |
| Ethylbenzene   | ug/kg | ND         | 45.2  | 41    | 38.0   | 34.3   | 84     | 84     | 10-144 | 10     | 20  |      |
| Hexachloro-1,3-butadiene                               | ug/kg | ND         | 45.2  | 41    | 41.4   | 36.7   | 92     | 89     | 10-136 | 12     | 20  |      |
| Iodomethane  | ug/kg | ND         | 90.5  | 82.2  | 78.9J  | 77.9J  | 87     | 95     | 10-155 |        | 20  |      |
| Isopropylbenzene (Cumene)                              | ug/kg | ND         | 45.2  | 41    | 40.5   | 36.1   | 89     | 88     | 10-134 | 11     | 20  |      |
| Methyl-tert-butyl ether                                | ug/kg | ND         | 90.5  | 82.2  | 76.3   | 71.7   | 84     | 87     | 30-147 | 6      | 20  |      |
| Methylene Chloride                                     | ug/kg | ND         | 45.2  | 41    | 30.8   | 27.8   | 68     | 68     | 23-150 | 10     | 20  |      |
| n-Butylbenzene   | ug/kg | ND         | 45.2  | 41    | 36.2   | 31.9   | 80     | 78     | 10-141 | 13     | 20  |      |
| n-Hexane   | ug/kg | ND         | 45.2  | 41    | 38.7   | 34.3   | 86     | 84     | 10-140 | 12     | 20  | N2   |
| n-Propylbenzene  | ug/kg | ND         | 45.2  | 41    | 36.7   | 33.0   | 81     | 80     | 10-143 | 10     | 20  |      |
| Naphthalene  | ug/kg | ND         | 45.2  | 41    | 38.2   | 34.2   | 84     | 83     | 10-130 | 11     | 20  |      |
| p-Isopropyltoluene                                     | ug/kg | ND         | 45.2  | 41    | 36.7   | 32.8   | 81     | 80     | 10-146 | 11     | 20  |      |
| sec-Butylbenzene                                       | ug/kg | ND         | 45.2  | 41    | 37.2   | 32.8   | 82     | 80     | 10-150 | 13     | 20  |      |
| Styrene  | ug/kg | ND         | 45.2  | 41    | 39.2   | 35.7   | 87     | 87     | 10-138 | 9      | 20  |      |
| tert-Butylbenzene                                      | ug/kg | ND         | 45.2  | 41    | 30.8   | 27.6   | 68     | 67     | 10-135 | 11     | 20  |      |
| Tetrachloroethene                                      | ug/kg | ND         | 45.2  | 41    | 38.4   | 34.9   | 85     | 85     | 10-153 | 10     | 20  |      |
| Toluene  | ug/kg | ND         | 45.2  | 41    | 35.9   | 33.1   | 79     | 81     | 10-140 | 8      | 20  |      |
| trans-1,2-Dichloroethene                               | ug/kg | ND         | 45.2  | 41    | 37.9   | 35.1   | 84     | 85     | 28-139 | 8      | 20  |      |
| trans-1,3-Dichloropropene                              | ug/kg | ND         | 45.2  | 41    | 34.6   | 33.0   | 77     | 80     | 10-126 | 5      | 20  |      |
| trans-1,4-Dichloro-2-butene                            | ug/kg | ND         | 181   | 164   | 139    | 130    | 77     | 79     | 10-132 | 7      | 20  |      |
| Trichloroethene  | ug/kg | ND         | 45.2  | 41    | 39.9   | 35.1   | 88     | 85     | 17-148 | 13     | 20  |      |
| Trichlorofluoromethane                                 | ug/kg | ND         | 45.2  | 41    | 40.0   | 36.1   | 89     | 88     | 31-177 | 10     | 20  |      |
| Vinyl acetate  | ug/kg | ND         | 181   | 164   | 157    | 147    | 87     | 90     | 10-131 | 6      | 20  |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1122046 |       |                      |                |                |              |               |             |              |                 |     |            | 1122047 |  |
|--|-------|----------------------|----------------|----------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|---------|--|
| Parameter                                      | Units | 5099718001<br>Result | MS             | MSD            | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual    |  |
|  |       |                      | Spike<br>Conc. | Spike<br>Conc. |              |               |             |              |                 |     |            |         |  |
| Vinyl chloride                                 | ug/kg | ND                   | 45.2           | 41             | 47.6         | 44.1          | 105         | 107          | 30-145          | 7   | 20         |         |  |
| Xylene (Total)                                 | ug/kg | ND                   | 135            | 123            | 116          | 107           | 86          | 86           | 10-143          | 9   | 20         |         |  |
| 4-Bromofluorobenzene (S)                       | %     |                      |                |                |              |               | 101         | 100          | 56-144          |     |            |         |  |
| Dibromofluoromethane (S)                       | %     |                      |                |                |              |               | 97          | 97           | 85-118          |     |            |         |  |
| Toluene-d8 (S)                                 | %     |                      |                |                |              |               | 93          | 94           | 71-128          |     |            |         |  |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1122048 |       |                      |                |                |              |               |             |              |                 |     |            | 1122049 |  |
|--|-------|----------------------|----------------|----------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|---------|--|
| Parameter                                      | Units | 5099688001<br>Result | MS             | MSD            | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual    |  |
|  |       |                      | Spike<br>Conc. | Spike<br>Conc. |              |               |             |              |                 |     |            |         |  |
| 1,1,1,2-Tetrachloroethane                      | ug/kg | ND                   | 46.7           | 51.5           | 40.6         | 46.3          | 87          | 90           | 10-129          | 13  | 20         |         |  |
| 1,1,1-Trichloroethane                          | ug/kg | ND                   | 46.7           | 51.5           | 39.8         | 43.8          | 85          | 85           | 26-143          | 10  | 20         |         |  |
| 1,1,2,2-Tetrachloroethane                      | ug/kg | ND                   | 46.7           | 51.5           | 37.1         | 40.2          | 79          | 78           | 10-156          | 8   | 20         |         |  |
| 1,1,2-Trichloroethane                          | ug/kg | ND                   | 46.7           | 51.5           | 38.7         | 42.5          | 83          | 82           | 13-156          | 9   | 20         |         |  |
| 1,1-Dichloroethane                             | ug/kg | ND                   | 46.7           | 51.5           | 39.3         | 44.1          | 84          | 86           | 36-150          | 12  | 20         |         |  |
| 1,1-Dichloroethene                             | ug/kg | ND                   | 46.7           | 51.5           | 41.4         | 45.7          | 89          | 89           | 31-146          | 10  | 20         |         |  |
| 1,1-Dichloropropene                            | ug/kg | ND                   | 46.7           | 51.5           | 39.0         | 43.0          | 84          | 84           | 26-145          | 10  | 20         |         |  |
| 1,2,3-Trichlorobenzene                         | ug/kg | ND                   | 46.7           | 51.5           | 40.0         | 40.6          | 85          | 79           | 10-119          | 2   | 20         |         |  |
| 1,2,3-Trichloropropane                         | ug/kg | ND                   | 46.7           | 51.5           | 36.4         | 38.7          | 78          | 75           | 10-168          | 6   | 20         |         |  |
| 1,2,4-Trichlorobenzene                         | ug/kg | ND                   | 46.7           | 51.5           | 40.0         | 39.6          | 86          | 77           | 10-122          | 1   | 20         |         |  |
| 1,2,4-Trimethylbenzene                         | ug/kg | ND                   | 46.7           | 51.5           | 39.0         | 40.8          | 83          | 79           | 10-139          | 5   | 20         |         |  |
| 1,2-Dibromoethane (EDB)                        | ug/kg | ND                   | 46.7           | 51.5           | 41.7         | 45.3          | 89          | 88           | 15-136          | 8   | 20         |         |  |
| 1,2-Dichlorobenzene                            | ug/kg | ND                   | 46.7           | 51.5           | 38.9         | 40.6          | 83          | 79           | 10-132          | 4   | 20         |         |  |
| 1,2-Dichloroethane                             | ug/kg | ND                   | 46.7           | 51.5           | 38.1         | 41.1          | 81          | 80           | 30-140          | 8   | 20         |         |  |
| 1,2-Dichloropropane                            | ug/kg | ND                   | 46.7           | 51.5           | 41.6         | 46.1          | 89          | 89           | 29-135          | 10  | 20         |         |  |
| 1,3,5-Trimethylbenzene                         | ug/kg | ND                   | 46.7           | 51.5           | 37.8         | 40.3          | 81          | 78           | 10-143          | 6   | 20         |         |  |
| 1,3-Dichlorobenzene                            | ug/kg | ND                   | 46.7           | 51.5           | 37.7         | 39.7          | 81          | 77           | 10-130          | 5   | 20         |         |  |
| 1,3-Dichloropropane                            | ug/kg | ND                   | 46.7           | 51.5           | 38.0         | 40.8          | 81          | 79           | 17-139          | 7   | 20         |         |  |
| 1,4-Dichlorobenzene                            | ug/kg | ND                   | 46.7           | 51.5           | 38.5         | 39.6          | 82          | 77           | 10-128          | 3   | 20         |         |  |
| 2,2-Dichloropropane                            | ug/kg | ND                   | 46.7           | 51.5           | 42.0         | 46.7          | 90          | 91           | 29-136          | 11  | 20         |         |  |
| 2-Butanone (MEK)                               | ug/kg | ND                   | 234            | 257            | 253          | 265           | 108         | 103          | 22-176          | 5   | 20         |         |  |
| 2-Chlorotoluene                                | ug/kg | ND                   | 46.7           | 51.5           | 37.6         | 39.8          | 80          | 77           | 10-146          | 6   | 20         |         |  |
| 2-Hexanone                                     | ug/kg | ND                   | 234            | 257            | 232          | 240           | 99          | 93           | 12-165          | 3   | 20         |         |  |
| 4-Chlorotoluene                                | ug/kg | ND                   | 46.7           | 51.5           | 39.1         | 41.3          | 84          | 80           | 10-138          | 6   | 20         |         |  |
| 4-Methyl-2-pentanone (MIBK)                    | ug/kg | ND                   | 234            | 257            | 202          | 216           | 87          | 84           | 22-155          | 7   | 20         |         |  |
| Acetone  | ug/kg | ND                   | 234            | 257            | 420          | 385           | 180         | 149          | 11-200          | 9   | 20         |         |  |
| Acrolein                                       | ug/kg | ND                   | 935            | 1030           | 1280         | 1410          | 137         | 137          | 10-200          | 9   | 20         |         |  |
| Acrylonitrile                                  | ug/kg | ND                   | 935            | 1030           | 825          | 905           | 88          | 88           | 20-150          | 9   | 20         |         |  |
| Benzene  | ug/kg | ND                   | 46.7           | 51.5           | 43.1         | 47.1          | 92          | 91           | 27-140          | 9   | 20         |         |  |
| Bromobenzene                                   | ug/kg | ND                   | 46.7           | 51.5           | 37.3         | 41.5          | 80          | 81           | 10-133          | 11  | 20         |         |  |
| Bromochloromethane                             | ug/kg | ND                   | 46.7           | 51.5           | 41.8         | 48.5          | 90          | 94           | 28-142          | 15  | 20         |         |  |
| Bromodichloromethane                           | ug/kg | ND                   | 46.7           | 51.5           | 39.4         | 43.5          | 84          | 84           | 13-139          | 10  | 20         |         |  |
| Bromoform                                      | ug/kg | ND                   | 46.7           | 51.5           | 37.8         | 40.7          | 81          | 79           | 10-122          | 7   | 20         |         |  |
| Bromomethane                                   | ug/kg | ND                   | 46.7           | 51.5           | 36.9         | 45.0          | 79          | 87           | 10-154          | 20  | 20         |         |  |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1122048 1122049 |       |                   |             |             |        |        |       |       |        |              |         |      |
|--|-------|-------------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|---------|------|
| Parameter  | Units | MS                |             | MSD         |        | MS     |       | MSD   |        | % Rec Limits | Max RPD | Qual |
|  |       | 5099688001 Result | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec |        |              |         |      |
| Carbon disulfide                                       | ug/kg | ND                | 93.5        | 103         | 85.4   | 95.9   | 91    | 93    | 20-142 | 12           | 20      |      |
| Carbon tetrachloride                                   | ug/kg | ND                | 46.7        | 51.5        | 38.1   | 41.8   | 81    | 81    | 19-135 | 9            | 20      |      |
| Chlorobenzene  | ug/kg | ND                | 46.7        | 51.5        | 38.5   | 41.7   | 82    | 81    | 10-136 | 8            | 20      |      |
| Chloroethane   | ug/kg | ND                | 46.7        | 51.5        | 50.6   | 56.4   | 108   | 109   | 24-161 | 11           | 20      |      |
| Chloroform   | ug/kg | ND                | 46.7        | 51.5        | 38.3   | 42.6   | 82    | 83    | 36-138 | 11           | 20      |      |
| Chloromethane  | ug/kg | ND                | 46.7        | 51.5        | 46.5   | 51.7   | 100   | 100   | 28-143 | 11           | 20      |      |
| cis-1,2-Dichloroethene                                 | ug/kg | ND                | 46.7        | 51.5        | 38.8   | 42.9   | 83    | 83    | 29-136 | 10           | 20      |      |
| cis-1,3-Dichloropropene                                | ug/kg | ND                | 46.7        | 51.5        | 35.4   | 39.3   | 76    | 76    | 10-130 | 10           | 20      |      |
| Dibromochloromethane                                   | ug/kg | ND                | 46.7        | 51.5        | 35.3   | 39.1   | 76    | 76    | 10-124 | 10           | 20      |      |
| Dibromomethane   | ug/kg | ND                | 46.7        | 51.5        | 38.5   | 42.9   | 82    | 83    | 24-136 | 11           | 20      |      |
| Dichlorodifluoromethane                                | ug/kg | ND                | 46.7        | 51.5        | 33.2   | 36.8   | 71    | 72    | 15-187 | 10           | 20      |      |
| Ethyl methacrylate                                     | ug/kg | ND                | 187         | 206         | 138    | 157    | 74    | 76    | 10-147 | 13           | 20      |      |
| Ethylbenzene   | ug/kg | ND                | 46.7        | 51.5        | 39.2   | 42.1   | 84    | 82    | 10-144 | 7            | 20      |      |
| Hexachloro-1,3-butadiene                               | ug/kg | ND                | 46.7        | 51.5        | 41.0   | 40.9   | 88    | 79    | 10-136 | 0            | 20      |      |
| Iodomethane  | ug/kg | ND                | 93.5        | 103         | 78.6J  | 103    | 84    | 100   | 10-155 |              | 20      |      |
| Isopropylbenzene (Cumene)                              | ug/kg | ND                | 46.7        | 51.5        | 40.5   | 44.3   | 87    | 86    | 10-134 | 9            | 20      |      |
| Methyl-tert-butyl ether                                | ug/kg | ND                | 93.5        | 103         | 81.9   | 88.0   | 88    | 85    | 30-147 | 7            | 20      |      |
| Methylene Chloride                                     | ug/kg | ND                | 46.7        | 51.5        | 30.9   | 35.0   | 66    | 68    | 23-150 | 12           | 20      |      |
| n-Butylbenzene   | ug/kg | ND                | 46.7        | 51.5        | 37.1   | 38.1   | 79    | 74    | 10-141 | 3            | 20      |      |
| n-Hexane   | ug/kg | ND                | 46.7        | 51.5        | 38.0   | 41.7   | 81    | 81    | 10-140 | 9            | 20      | N2   |
| n-Propylbenzene  | ug/kg | ND                | 46.7        | 51.5        | 38.5   | 40.6   | 82    | 79    | 10-143 | 5            | 20      |      |
| Naphthalene  | ug/kg | ND                | 46.7        | 51.5        | 39.7   | 40.8   | 85    | 79    | 10-130 | 3            | 20      |      |
| p-Isopropyltoluene                                     | ug/kg | ND                | 46.7        | 51.5        | 37.9   | 39.1   | 81    | 76    | 10-146 | 3            | 20      |      |
| sec-Butylbenzene                                       | ug/kg | ND                | 46.7        | 51.5        | 38.3   | 40.5   | 82    | 79    | 10-150 | 6            | 20      |      |
| Styrene  | ug/kg | ND                | 46.7        | 51.5        | 40.4   | 43.3   | 86    | 84    | 10-138 | 7            | 20      |      |
| tert-Butylbenzene                                      | ug/kg | ND                | 46.7        | 51.5        | 32.2   | 34.2   | 69    | 66    | 10-135 | 6            | 20      |      |
| Tetrachloroethene                                      | ug/kg | ND                | 46.7        | 51.5        | 39.2   | 42.7   | 84    | 83    | 10-153 | 8            | 20      |      |
| Toluene  | ug/kg | ND                | 46.7        | 51.5        | 37.3   | 40.5   | 80    | 79    | 10-140 | 8            | 20      |      |
| trans-1,2-Dichloroethene                               | ug/kg | ND                | 46.7        | 51.5        | 39.6   | 43.3   | 85    | 84    | 28-139 | 9            | 20      |      |
| trans-1,3-Dichloropropene                              | ug/kg | ND                | 46.7        | 51.5        | 37.2   | 40.2   | 80    | 78    | 10-126 | 8            | 20      |      |
| trans-1,4-Dichloro-2-butene                            | ug/kg | ND                | 187         | 206         | 143    | 151    | 77    | 73    | 10-132 | 5            | 20      |      |
| Trichloroethene  | ug/kg | ND                | 46.7        | 51.5        | 41.2   | 43.9   | 88    | 85    | 17-148 | 6            | 20      |      |
| Trichlorofluoromethane                                 | ug/kg | ND                | 46.7        | 51.5        | 41.2   | 45.7   | 88    | 89    | 31-177 | 10           | 20      |      |
| Vinyl acetate  | ug/kg | ND                | 187         | 206         | 92.3J  | 148    | 49    | 72    | 10-131 |              | 20      |      |
| Vinyl chloride   | ug/kg | ND                | 46.7        | 51.5        | 48.4   | 54.7   | 103   | 106   | 30-145 | 12           | 20      |      |
| Xylene (Total)   | ug/kg | ND                | 141         | 154         | 119    | 128    | 85    | 83    | 10-143 | 7            | 20      |      |
| 4-Bromofluorobenzene (S)                               | %     |                   |             |             |        |        | 99    | 100   | 56-144 |              |         |      |
| Dibromofluoromethane (S)                               | %     |                   |             |             |        |        | 96    | 98    | 85-118 |              |         |      |
| Toluene-d8 (S)   | %     |                   |             |             |        |        | 94    | 94    | 71-128 |              |         |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

QC Batch: MSV/66414 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 5099688005, 5099688006, 5099688007, 5099688008, 5099688009, 5099688010

METHOD BLANK: 1122064 Matrix: Solid  
 Associated Lab Samples: 5099688005, 5099688006, 5099688007, 5099688008, 5099688009, 5099688010

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 07/02/14 23:03 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 07/02/14 23:03 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 07/02/14 23:03 |            |
| Acetone                     | ug/kg | ND           | 100             | 07/02/14 23:03 |            |
| Acrolein                    | ug/kg | ND           | 100             | 07/02/14 23:03 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 07/02/14 23:03 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 07/02/14 23:03 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

METHOD BLANK: 1122064

Matrix: Solid

Associated Lab Samples: 5099688005, 5099688006, 5099688007, 5099688008, 5099688009, 5099688010

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 07/02/14 23:03 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 07/02/14 23:03 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 07/02/14 23:03 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 07/02/14 23:03 | N2         |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 07/02/14 23:03 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 07/02/14 23:03 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 07/02/14 23:03 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 07/02/14 23:03 |            |
| 4-Bromofluorobenzene (S)    | %     | 99           | 56-144          | 07/02/14 23:03 |            |
| Dibromofluoromethane (S)    | %     | 94           | 85-118          | 07/02/14 23:03 |            |
| Toluene-d8 (S)              | %     | 94           | 71-128          | 07/02/14 23:03 |            |

LABORATORY CONTROL SAMPLE: 1122065

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/kg | 50          | 45.6       | 91        | 62-123       |            |
| 1,1,1-Trichloroethane     | ug/kg | 50          | 44.4       | 89        | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 40.3       | 81        | 65-124       |            |
| 1,1,2-Trichloroethane     | ug/kg | 50          | 41.2       | 82        | 74-129       |            |
| 1,1-Dichloroethane        | ug/kg | 50          | 44.4       | 89        | 73-130       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 45.8       | 92        | 66-126       |            |
| 1,1-Dichloropropene       | ug/kg | 50          | 42.0       | 84        | 78-125       |            |
| 1,2,3-Trichlorobenzene    | ug/kg | 50          | 39.9       | 80        | 66-131       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

LABORATORY CONTROL SAMPLE: 1122065

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,3-Trichloropropane      | ug/kg | 50          | 39.2       | 78        | 44-157       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 50          | 37.4       | 75        | 68-129       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 50          | 40.2       | 80        | 67-126       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 50          | 45.3       | 91        | 74-120       |            |
| 1,2-Dichlorobenzene         | ug/kg | 50          | 39.9       | 80        | 73-122       |            |
| 1,2-Dichloroethane          | ug/kg | 50          | 41.5       | 83        | 73-127       |            |
| 1,2-Dichloropropane         | ug/kg | 50          | 46.0       | 92        | 75-118       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 50          | 39.9       | 80        | 65-127       |            |
| 1,3-Dichlorobenzene         | ug/kg | 50          | 38.2       | 76        | 73-121       |            |
| 1,3-Dichloropropane         | ug/kg | 50          | 40.4       | 81        | 72-121       |            |
| 1,4-Dichlorobenzene         | ug/kg | 50          | 38.5       | 77        | 75-119       |            |
| 2,2-Dichloropropane         | ug/kg | 50          | 45.8       | 92        | 63-122       |            |
| 2-Butanone (MEK)            | ug/kg | 250         | 215        | 86        | 59-139       |            |
| 2-Chlorotoluene             | ug/kg | 50          | 39.6       | 79        | 72-121       |            |
| 2-Hexanone                  | ug/kg | 250         | 215        | 86        | 56-139       |            |
| 4-Chlorotoluene             | ug/kg | 50          | 39.8       | 80        | 75-123       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 250         | 212        | 85        | 63-136       |            |
| Acetone                     | ug/kg | 250         | 222        | 89        | 46-156       |            |
| Acrolein                    | ug/kg | 1000        | 1420       | 142       | 47-200       |            |
| Acrylonitrile               | ug/kg | 1000        | 904        | 90        | 67-130       |            |
| Benzene                     | ug/kg | 50          | 46.9       | 94        | 74-119       |            |
| Bromobenzene                | ug/kg | 50          | 39.5       | 79        | 69-129       |            |
| Bromochloromethane          | ug/kg | 50          | 45.7       | 91        | 67-129       |            |
| Bromodichloromethane        | ug/kg | 50          | 44.8       | 90        | 68-121       |            |
| Bromoform                   | ug/kg | 50          | 39.9       | 80        | 49-124       |            |
| Bromomethane                | ug/kg | 50          | 44.9       | 90        | 44-142       |            |
| Carbon disulfide            | ug/kg | 100         | 95.0       | 95        | 61-129       |            |
| Carbon tetrachloride        | ug/kg | 50          | 42.4       | 85        | 58-127       |            |
| Chlorobenzene               | ug/kg | 50          | 40.7       | 81        | 77-122       |            |
| Chloroethane                | ug/kg | 50          | 57.1       | 114       | 59-141       |            |
| Chloroform                  | ug/kg | 50          | 42.8       | 86        | 75-124       |            |
| Chloromethane               | ug/kg | 50          | 52.2       | 104       | 46-133       |            |
| cis-1,2-Dichloroethene      | ug/kg | 50          | 43.0       | 86        | 72-122       |            |
| cis-1,3-Dichloropropene     | ug/kg | 50          | 38.7       | 77        | 68-115       |            |
| Dibromochloromethane        | ug/kg | 50          | 38.3       | 77        | 60-121       |            |
| Dibromomethane              | ug/kg | 50          | 41.1       | 82        | 72-124       |            |
| Dichlorodifluoromethane     | ug/kg | 50          | 36.3       | 73        | 26-186       |            |
| Ethyl methacrylate          | ug/kg | 200         | 155        | 77        | 63-130       |            |
| Ethylbenzene                | ug/kg | 50          | 42.1       | 84        | 72-123       |            |
| Hexachloro-1,3-butadiene    | ug/kg | 50          | 41.8       | 84        | 55-139       |            |
| Iodomethane                 | ug/kg | 100         | 90.2J      | 90        | 38-149       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 50          | 43.8       | 88        | 65-123       |            |
| Methyl-tert-butyl ether     | ug/kg | 100         | 87.5       | 88        | 68-120       |            |
| Methylene Chloride          | ug/kg | 50          | 36.7       | 73        | 57-142       |            |
| n-Butylbenzene              | ug/kg | 50          | 36.8       | 74        | 68-125       |            |
| n-Hexane                    | ug/kg | 50          | 37.7       | 75        | 57-117 N2    |            |
| n-Propylbenzene             | ug/kg | 50          | 39.9       | 80        | 68-122       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

LABORATORY CONTROL SAMPLE: 1122065

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Naphthalene                 | ug/kg | 50          | 40.0       | 80        | 67-131       |            |
| p-Isopropyltoluene          | ug/kg | 50          | 38.6       | 77        | 66-133       |            |
| sec-Butylbenzene            | ug/kg | 50          | 40.6       | 81        | 64-131       |            |
| Styrene                     | ug/kg | 50          | 42.7       | 85        | 70-126       |            |
| tert-Butylbenzene           | ug/kg | 50          | 34.2       | 68        | 46-124       |            |
| Tetrachloroethene           | ug/kg | 50          | 40.4       | 81        | 72-126       |            |
| Toluene                     | ug/kg | 50          | 40.7       | 81        | 71-121       |            |
| trans-1,2-Dichloroethene    | ug/kg | 50          | 42.6       | 85        | 69-123       |            |
| trans-1,3-Dichloropropene   | ug/kg | 50          | 39.9       | 80        | 66-114       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 200         | 152        | 76        | 61-124       |            |
| Trichloroethene             | ug/kg | 50          | 43.1       | 86        | 74-123       |            |
| Trichlorofluoromethane      | ug/kg | 50          | 46.2       | 92        | 72-146       |            |
| Vinyl acetate               | ug/kg | 200         | 188        | 94        | 57-131       |            |
| Vinyl chloride              | ug/kg | 50          | 54.5       | 109       | 55-128       |            |
| Xylene (Total)              | ug/kg | 150         | 126        | 84        | 66-124       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 100       | 56-144       |            |
| Dibromofluoromethane (S)    | %     |             |            | 97        | 85-118       |            |
| Toluene-d8 (S)              | %     |             |            | 94        | 71-128       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1122066 1122067

| Parameter                 | Units | 5099688008 |       | MS          |             | MSD    |        | MS    |        | MSD |    | % Rec Limits | RPD | RPD | Qual |
|---------------------------|-------|------------|-------|-------------|-------------|--------|--------|-------|--------|-----|----|--------------|-----|-----|------|
|                           |       | Result     | Conc. | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec  |     |    |              |     |     |      |
| 1,1,1,2-Tetrachloroethane | ug/kg | ND         | 75    | 74.8        | 54.1        | 56.8   | 72     | 76    | 10-129 | 5   | 20 |              |     |     |      |
| 1,1,1-Trichloroethane     | ug/kg | ND         | 75    | 74.8        | 71.0        | 71.9   | 95     | 96    | 26-143 | 1   | 20 |              |     |     |      |
| 1,1,2,2-Tetrachloroethane | ug/kg | ND         | 75    | 74.8        | 39.2        | 47.9   | 52     | 64    | 10-156 | 20  | 20 |              |     |     |      |
| 1,1,2-Trichloroethane     | ug/kg | ND         | 75    | 74.8        | 44.7        | 53.3   | 60     | 71    | 13-156 | 18  | 20 |              |     |     |      |
| 1,1-Dichloroethane        | ug/kg | ND         | 75    | 74.8        | 62.5        | 65.8   | 83     | 88    | 36-150 | 5   | 20 |              |     |     |      |
| 1,1-Dichloroethene        | ug/kg | ND         | 75    | 74.8        | 66.7        | 73.5   | 89     | 98    | 31-146 | 10  | 20 |              |     |     |      |
| 1,1-Dichloropropene       | ug/kg | ND         | 75    | 74.8        | 55.0        | 64.2   | 73     | 86    | 26-145 | 15  | 20 |              |     |     |      |
| 1,2,3-Trichlorobenzene    | ug/kg | ND         | 75    | 74.8        | 9.0         | 15.5   | 12     | 21    | 10-119 | 53  | 20 |              |     |     |      |
| 1,2,3-Trichloropropane    | ug/kg | ND         | 75    | 74.8        | 40.8        | 50.4   | 54     | 67    | 10-168 | 21  | 20 |              |     |     |      |
| 1,2,4-Trichlorobenzene    | ug/kg | ND         | 75    | 74.8        | 8.5         | 16.0   | 11     | 21    | 10-122 | 61  | 20 |              |     |     |      |
| 1,2,4-Trimethylbenzene    | ug/kg | ND         | 75    | 74.8        | 33.2        | 44.3   | 44     | 59    | 10-139 | 28  | 20 |              |     |     |      |
| 1,2-Dibromoethane (EDB)   | ug/kg | ND         | 75    | 74.8        | 34.7        | 49.7   | 46     | 66    | 15-136 | 36  | 20 |              |     |     |      |
| 1,2-Dichlorobenzene       | ug/kg | ND         | 75    | 74.8        | 17.4        | 29.2   | 23     | 39    | 10-132 | 51  | 20 |              |     |     |      |
| 1,2-Dichloroethane        | ug/kg | ND         | 75    | 74.8        | 47.2        | 55.3   | 63     | 74    | 30-140 | 16  | 20 |              |     |     |      |
| 1,2-Dichloropropane       | ug/kg | ND         | 75    | 74.8        | 58.1        | 61.3   | 77     | 82    | 29-135 | 5   | 20 |              |     |     |      |
| 1,3,5-Trimethylbenzene    | ug/kg | ND         | 75    | 74.8        | 40.0        | 49.2   | 53     | 66    | 10-143 | 21  | 20 |              |     |     |      |
| 1,3-Dichlorobenzene       | ug/kg | ND         | 75    | 74.8        | 16.9        | 29.0   | 23     | 39    | 10-130 | 53  | 20 |              |     |     |      |
| 1,3-Dichloropropane       | ug/kg | ND         | 75    | 74.8        | 39.5        | 49.9   | 53     | 67    | 17-139 | 23  | 20 |              |     |     |      |
| 1,4-Dichlorobenzene       | ug/kg | ND         | 75    | 74.8        | 14.1        | 26.8   | 19     | 36    | 10-128 | 62  | 20 |              |     |     |      |
| 2,2-Dichloropropane       | ug/kg | ND         | 75    | 74.8        | 68.7        | 76.4   | 92     | 102   | 29-136 | 11  | 20 |              |     |     |      |
| 2-Butanone (MEK)          | ug/kg | ND         | 375   | 374         | 329         | 321    | 88     | 86    | 22-176 | 3   | 20 |              |     |     |      |
| 2-Chlorotoluene           | ug/kg | ND         | 75    | 74.8        | 30.4        | 43.6   | 40     | 58    | 10-146 | 36  | 20 |              |     |     |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

| Parameter                   | 5099688008 |        | MS             | MSD            | 1122066      |               | 1122067     |              | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|-----------------------------|------------|--------|----------------|----------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|                             | Units      | Result | Spike<br>Conc. | Spike<br>Conc. | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec |                 |     |            |      |
| 2-Hexanone                  | ug/kg      | ND     | 375            | 374            | 219          | 276           | 58          | 74           | 12-165          | 23  | 20         |      |
| 4-Chlorotoluene             | ug/kg      | ND     | 75             | 74.8           | 22.7         | 37.2          | 30          | 50           | 10-138          | 48  | 20         |      |
| 4-Methyl-2-pentanone (MIBK) | ug/kg      | ND     | 375            | 374            | 272          | 295           | 72          | 79           | 22-155          | 8   | 20         |      |
| Acetone                     | ug/kg      | ND     | 375            | 374            | 558          | 403           | 149         | 108          | 11-200          | 32  | 20         |      |
| Acrolein                    | ug/kg      | ND     | 1500           | 1490           | 1630         | 1820          | 108         | 122          | 10-200          | 11  | 20         |      |
| Acrylonitrile               | ug/kg      | ND     | 1500           | 1490           | 1070         | 1170          | 71          | 78           | 20-150          | 8   | 20         |      |
| Benzene                     | ug/kg      | ND     | 75             | 74.8           | 57.3         | 65.4          | 76          | 87           | 27-140          | 13  | 20         |      |
| Bromobenzene                | ug/kg      | ND     | 75             | 74.8           | 20.6         | 34.7          | 27          | 46           | 10-133          | 51  | 20         |      |
| Bromochloromethane          | ug/kg      | ND     | 75             | 74.8           | 52.2         | 59.8          | 70          | 80           | 28-142          | 14  | 20         |      |
| Bromodichloromethane        | ug/kg      | ND     | 75             | 74.8           | 51.3         | 56.9          | 68          | 76           | 13-139          | 10  | 20         |      |
| Bromoform                   | ug/kg      | ND     | 75             | 74.8           | 36.9         | 45.5          | 49          | 61           | 10-122          | 21  | 20         |      |
| Bromomethane                | ug/kg      | ND     | 75             | 74.8           | 53.0         | 71.2          | 71          | 95           | 10-154          | 29  | 20         |      |
| Carbon disulfide            | ug/kg      | ND     | 150            | 149            | 104          | 138           | 69          | 92           | 20-142          | 28  | 20         |      |
| Carbon tetrachloride        | ug/kg      | ND     | 75             | 74.8           | 65.7         | 66.6          | 87          | 89           | 19-135          | 1   | 20         |      |
| Chlorobenzene               | ug/kg      | ND     | 75             | 74.8           | 29.1         | 43.3          | 39          | 58           | 10-136          | 39  | 20         |      |
| Chloroethane                | ug/kg      | ND     | 75             | 74.8           | 84.9         | 90.3          | 113         | 121          | 24-161          | 6   | 20         |      |
| Chloroform                  | ug/kg      | ND     | 75             | 74.8           | 58.4         | 60.9          | 78          | 81           | 36-138          | 4   | 20         |      |
| Chloromethane               | ug/kg      | ND     | 75             | 74.8           | 78.7         | 93.1          | 105         | 124          | 28-143          | 17  | 20         |      |
| cis-1,2-Dichloroethene      | ug/kg      | ND     | 75             | 74.8           | 44.1         | 54.0          | 59          | 72           | 29-136          | 20  | 20         |      |
| cis-1,3-Dichloropropene     | ug/kg      | ND     | 75             | 74.8           | 31.9         | 45.0          | 43          | 60           | 10-130          | 34  | 20         |      |
| Dibromochloromethane        | ug/kg      | ND     | 75             | 74.8           | 37.6         | 45.3          | 50          | 61           | 10-124          | 19  | 20         |      |
| Dibromomethane              | ug/kg      | ND     | 75             | 74.8           | 41.4         | 47.8          | 55          | 64           | 24-136          | 14  | 20         |      |
| Dichlorodifluoromethane     | ug/kg      | ND     | 75             | 74.8           | 62.9         | 103           | 84          | 137          | 15-187          | 48  | 20         | 2d   |
| Ethyl methacrylate          | ug/kg      | ND     | 301            | 300            | 91.6J        | 175           | 30          | 58           | 10-147          |     | 20         |      |
| Ethylbenzene                | ug/kg      | ND     | 75             | 74.8           | 44.3         | 54.4          | 59          | 73           | 10-144          | 20  | 20         |      |
| Hexachloro-1,3-butadiene    | ug/kg      | ND     | 75             | 74.8           | 35.4         | 41.1          | 47          | 55           | 10-136          | 15  | 20         |      |
| Iodomethane                 | ug/kg      | ND     | 150            | 149            | 92.4J        | 165           | 62          | 110          | 10-155          |     | 20         |      |
| Isopropylbenzene (Cumene)   | ug/kg      | ND     | 75             | 74.8           | 50.7         | 58.3          | 68          | 78           | 10-134          | 14  | 20         |      |
| Methyl-tert-butyl ether     | ug/kg      | ND     | 150            | 149            | 129          | 122           | 86          | 82           | 30-147          | 5   | 20         |      |
| Methylene Chloride          | ug/kg      | ND     | 75             | 74.8           | 39.7         | 46.5          | 53          | 62           | 23-150          | 16  | 20         |      |
| n-Butylbenzene              | ug/kg      | ND     | 75             | 74.8           | 30.5         | 42.4          | 41          | 57           | 10-141          | 33  | 20         |      |
| n-Hexane                    | ug/kg      | ND     | 75             | 74.8           | 54.5         | 67.1          | 73          | 90           | 10-140          | 21  | 20         | N2   |
| n-Propylbenzene             | ug/kg      | ND     | 75             | 74.8           | 39.2         | 51.4          | 52          | 69           | 10-143          | 27  | 20         |      |
| Naphthalene                 | ug/kg      | ND     | 75             | 74.8           | 6.2J         | 15.7          | 8           | 21           | 10-130          |     | 20         | M0   |
| p-Isopropyltoluene          | ug/kg      | ND     | 75             | 74.8           | 40.0         | 48.8          | 53          | 65           | 10-146          | 20  | 20         |      |
| sec-Butylbenzene            | ug/kg      | ND     | 75             | 74.8           | 44.9         | 54.2          | 60          | 72           | 10-150          | 19  | 20         |      |
| Styrene                     | ug/kg      | ND     | 75             | 74.8           | 22.0         | 37.8          | 29          | 50           | 10-138          | 53  | 20         |      |
| tert-Butylbenzene           | ug/kg      | ND     | 75             | 74.8           | 41.8         | 46.9          | 56          | 63           | 10-135          | 12  | 20         |      |
| Tetrachloroethene           | ug/kg      | ND     | 75             | 74.8           | 56.0         | 60.5          | 75          | 81           | 10-153          | 8   | 20         |      |
| Toluene                     | ug/kg      | ND     | 75             | 74.8           | 43.1         | 54.5          | 57          | 73           | 10-140          | 23  | 20         |      |
| trans-1,2-Dichloroethene    | ug/kg      | ND     | 75             | 74.8           | 46.0         | 57.8          | 61          | 77           | 28-139          | 23  | 20         |      |
| trans-1,3-Dichloropropene   | ug/kg      | ND     | 75             | 74.8           | 27.6         | 41.7          | 37          | 56           | 10-126          | 41  | 20         |      |
| trans-1,4-Dichloro-2-butene | ug/kg      | ND     | 301            | 300            | 79.8J        | 144J          | 27          | 48           | 10-132          |     | 20         |      |
| Trichloroethene             | ug/kg      | ND     | 75             | 74.8           | 50.9         | 59.0          | 68          | 79           | 17-148          | 15  | 20         |      |
| Trichlorofluoromethane      | ug/kg      | ND     | 75             | 74.8           | 78.4         | 83.0          | 104         | 111          | 31-177          | 6   | 20         |      |
| Vinyl acetate               | ug/kg      | ND     | 301            | 300            | 81.8J        | 115J          | 27          | 38           | 10-131          |     | 20         |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: |       | 1122066              |                | 1122067        |              |               |             |              |                 |     |            |      |  |
|--|-------|----------------------|----------------|----------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|--|
| Parameter                              | Units | 5099688008<br>Result | MS             | MSD            | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |  |
|  |       |                      | Spike<br>Conc. | Spike<br>Conc. |              |               |             |              |                 |     |            |      |  |
| Vinyl chloride                         | ug/kg | ND                   | 75             | 74.8           | 79.4         | 93.3          | 106         | 125          | 30-145          | 16  | 20         |      |  |
| Xylene (Total)                         | ug/kg | ND                   | 225            | 225            | 123          | 156           | 55          | 69           | 10-143          | 24  | 20         |      |  |
| 4-Bromofluorobenzene (S)               | %     |                      |                |                |              |               | 98          | 98           | 56-144          |     |            |      |  |
| Dibromofluoromethane (S)               | %     |                      |                |                |              |               | 99          | 96           | 85-118          |     |            |      |  |
| Toluene-d8 (S)                         | %     |                      |                |                |              |               | 93          | 95           | 71-128          |     |            |      |  |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

QC Batch: OEXT/36237 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
Associated Lab Samples: 5099688001, 5099688002, 5099688003

METHOD BLANK: 1117906 Matrix: Solid  
Associated Lab Samples: 5099688001, 5099688002, 5099688003

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | ND           | 100             | 06/26/14 22:36 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | ND           | 100             | 06/26/14 22:36 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | ND           | 100             | 06/26/14 22:36 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | ND           | 100             | 06/26/14 22:36 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | ND           | 100             | 06/26/14 22:36 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | ND           | 100             | 06/26/14 22:36 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND           | 100             | 06/26/14 22:36 |            |
| Tetrachloro-m-xylene (S) | %.    | 88           | 30-106          | 06/26/14 22:36 |            |

LABORATORY CONTROL SAMPLE: 1117907

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 167         | 135        | 81        | 42-100       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 167         | 152        | 91        | 40-106       |            |
| Tetrachloro-m-xylene (S) | %.    |             |            | 89        | 30-106       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117908 1117909

| Parameter                | Units | MS                |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|--------------------------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
|                          |       | 5099688001 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      |
| PCB-1016 (Aroclor 1016)  | ug/kg | ND                | 174         | 174         | 69.7J     | 145      | 40        | 83           | 10-145 | 20      |      |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND                | 174         | 174         | 59.1J     | 149      | 34        | 85           | 16-132 | 20      |      |
| Tetrachloro-m-xylene (S) | %.    |                   |             |             |           |          | 57        | 90           | 30-106 |         |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

QC Batch: OEXT/36245 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
Associated Lab Samples: 5099688004, 5099688005, 5099688006, 5099688007, 5099688008

METHOD BLANK: 1117946 Matrix: Solid  
Associated Lab Samples: 5099688004, 5099688005, 5099688006, 5099688007, 5099688008

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | ND           | 100             | 06/27/14 03:20 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | ND           | 100             | 06/27/14 03:20 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | ND           | 100             | 06/27/14 03:20 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | ND           | 100             | 06/27/14 03:20 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | ND           | 100             | 06/27/14 03:20 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | ND           | 100             | 06/27/14 03:20 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND           | 100             | 06/27/14 03:20 |            |
| Tetrachloro-m-xylene (S) | %.    | 86           | 30-106          | 06/27/14 03:20 |            |

LABORATORY CONTROL SAMPLE: 1117947

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 167         | 134        | 81        | 42-100       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 167         | 141        | 85        | 40-106       |            |
| Tetrachloro-m-xylene (S) | %.    |             |            | 86        | 30-106       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117948 1117949

| Parameter                | Units | MS                |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|--------------------------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
|                          |       | 5099688008 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      |
| PCB-1016 (Aroclor 1016)  | ug/kg | ND                | 190         | 190         | 131       | 134      | 69        | 70           | 10-145 | 2       | 20   |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND                | 190         | 190         | 131       | 142      | 69        | 75           | 16-132 | 8       | 20   |
| Tetrachloro-m-xylene (S) | %.    |                   |             |             |           |          | 74        | 78           | 30-106 |         |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

QC Batch: OEXT/36253 Analysis Method: EPA 8082  
 QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
 Associated Lab Samples: 5099688009, 5099688010, 5099688011, 5099688012

METHOD BLANK: 1118946 Matrix: Solid  
 Associated Lab Samples: 5099688009, 5099688010, 5099688011, 5099688012

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| Tetrachloro-m-xylene (S) | %     | 92           | 30-106          | 07/01/14 17:03 |            |

LABORATORY CONTROL SAMPLE: 1118947

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 167         | 130        | 78        | 42-100       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 167         | 135        | 81        | 40-106       |            |
| Tetrachloro-m-xylene (S) | %     |             |            | 87        | 30-106       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1118948 1118949

| Parameter                | Units | MS                |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|--------------------------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
|                          |       | 5099765001 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      |
| PCB-1016 (Aroclor 1016)  | ug/kg | ND                | 186         | 185         | 138       | 139      | 74        | 75           | 10-145 | 1       | 20   |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND                | 186         | 185         | 133       | 131      | 71        | 71           | 16-132 | 1       | 20   |
| Tetrachloro-m-xylene (S) | %     |                   |             |             |           |          | 83        | 82           | 30-106 |         |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

QC Batch: OEXT/36198

Analysis Method: EPA 8082

QC Batch Method: EPA 3510

Analysis Description: 8082 GCS PCB Mod

Associated Lab Samples: 5099688013

METHOD BLANK: 1115924

Matrix: Water

Associated Lab Samples: 5099688013

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/L  | ND           | 0.50            | 06/24/14 19:07 |            |
| PCB-1221 (Aroclor 1221)  | ug/L  | ND           | 0.50            | 06/24/14 19:07 |            |
| PCB-1232 (Aroclor 1232)  | ug/L  | ND           | 0.50            | 06/24/14 19:07 |            |
| PCB-1242 (Aroclor 1242)  | ug/L  | ND           | 0.50            | 06/24/14 19:07 |            |
| PCB-1248 (Aroclor 1248)  | ug/L  | ND           | 0.50            | 06/24/14 19:07 |            |
| PCB-1254 (Aroclor 1254)  | ug/L  | ND           | 0.50            | 06/24/14 19:07 |            |
| PCB-1260 (Aroclor 1260)  | ug/L  | ND           | 0.50            | 06/24/14 19:07 |            |
| Tetrachloro-m-xylene (S) | %     | 86           | 32-115          | 06/24/14 19:07 |            |

LABORATORY CONTROL SAMPLE: 1115925

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/L  | 5           | 4.3        | 85        | 50-114       |            |
| PCB-1260 (Aroclor 1260)  | ug/L  | 5           | 4.2        | 85        | 44-120       |            |
| Tetrachloro-m-xylene (S) | %     |             |            | 85        | 32-115       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

QC Batch: OEXT/36222 Analysis Method: EPA 8270  
 QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
 Associated Lab Samples: 5099688001, 5099688002, 5099688003, 5099688004, 5099688005, 5099688006, 5099688007, 5099688008,  
 5099688009, 5099688010, 5099688011, 5099688012

METHOD BLANK: 1117087 Matrix: Solid  
 Associated Lab Samples: 5099688001, 5099688002, 5099688003, 5099688004, 5099688005, 5099688006, 5099688007, 5099688008,  
 5099688009, 5099688010, 5099688011, 5099688012

| Parameter                       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------|-------|--------------|-----------------|----------------|------------|
| 2,4,5-Trichlorophenol           | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2,4,6-Trichlorophenol           | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2,4-Dichlorophenol              | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2,4-Dimethylphenol              | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2,4-Dinitrophenol               | ug/kg | ND           | 1600            | 06/27/14 15:01 |            |
| 2,4-Dinitrotoluene              | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2,6-Dinitrotoluene              | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2-Chloronaphthalene             | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2-Chlorophenol                  | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2-Methylnaphthalene             | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2-Methylphenol(o-Cresol)        | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2-Nitroaniline                  | ug/kg | ND           | 1600            | 06/27/14 15:01 |            |
| 2-Nitrophenol                   | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 3&4-Methylphenol(m&p Cresol)    | ug/kg | ND           | 660             | 06/27/14 15:01 |            |
| 3,3'-Dichlorobenzidine          | ug/kg | ND           | 660             | 06/27/14 15:01 |            |
| 3-Nitroaniline                  | ug/kg | ND           | 1600            | 06/27/14 15:01 |            |
| 4,6-Dinitro-2-methylphenol      | ug/kg | ND           | 1600            | 06/27/14 15:01 |            |
| 4-Bromophenylphenyl ether       | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 4-Chloro-3-methylphenol         | ug/kg | ND           | 660             | 06/27/14 15:01 |            |
| 4-Chloroaniline                 | ug/kg | ND           | 660             | 06/27/14 15:01 |            |
| 4-Chlorophenylphenyl ether      | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 4-Nitroaniline                  | ug/kg | ND           | 1600            | 06/27/14 15:01 |            |
| 4-Nitrophenol                   | ug/kg | ND           | 1600            | 06/27/14 15:01 |            |
| Acenaphthene                    | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Acenaphthylene                  | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Anthracene                      | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Benzo(a)anthracene              | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Benzo(a)pyrene                  | ug/kg | ND           | 170             | 06/27/14 15:01 |            |
| Benzo(b)fluoranthene            | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Benzo(g,h,i)perylene            | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Benzo(k)fluoranthene            | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Benzyl alcohol                  | ug/kg | ND           | 660             | 06/27/14 15:01 |            |
| bis(2-Chloroethoxy)methane      | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| bis(2-Chloroethyl) ether        | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| bis(2-Ethylhexyl)phthalate      | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| bis(2chloro1 methylethyl) ether | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Butylbenzylphthalate            | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Chrysene                        | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Di-n-butylphthalate             | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Di-n-octylphthalate             | ug/kg | ND           | 330             | 06/27/14 15:01 |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

METHOD BLANK: 1117087

Matrix: Solid

Associated Lab Samples: 5099688001, 5099688002, 5099688003, 5099688004, 5099688005, 5099688006, 5099688007, 5099688008, 5099688009, 5099688010, 5099688011, 5099688012

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/kg | ND           | 170             | 06/27/14 15:01 |            |
| Dibenzofuran               | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Diethylphthalate           | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Dimethylphthalate          | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Fluoranthene               | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Fluorene                   | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Hexachloro-1,3-butadiene   | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Hexachlorobenzene          | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Hexachlorocyclopentadiene  | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Hexachloroethane           | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Isophorone                 | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| N-Nitroso-di-n-propylamine | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| N-Nitrosodiphenylamine     | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Naphthalene                | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Nitrobenzene               | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Pentachlorophenol          | ug/kg | ND           | 1600            | 06/27/14 15:01 |            |
| Phenanthrene               | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Phenol                     | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| Pyrene                     | ug/kg | ND           | 330             | 06/27/14 15:01 |            |
| 2,4,6-Tribromophenol (S)   | %     | 54           | 16-122          | 06/27/14 15:01 |            |
| 2-Fluorobiphenyl (S)       | %     | 71           | 31-94           | 06/27/14 15:01 |            |
| 2-Fluorophenol (S)         | %     | 67           | 24-104          | 06/27/14 15:01 |            |
| Nitrobenzene-d5 (S)        | %     | 67           | 28-101          | 06/27/14 15:01 |            |
| p-Terphenyl-d14 (S)        | %     | 91           | 26-110          | 06/27/14 15:01 |            |
| Phenol-d5 (S)              | %     | 66           | 28-101          | 06/27/14 15:01 |            |

LABORATORY CONTROL SAMPLE: 1117088

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,4-Dinitrotoluene      | ug/kg | 3330        | 2340       | 70        | 39-103       |            |
| 2-Chlorophenol          | ug/kg | 3330        | 2320       | 70        | 38-96        |            |
| 2-Methylnaphthalene     | ug/kg | 3330        | 2420       | 73        | 36-94        |            |
| 4-Chloro-3-methylphenol | ug/kg | 3330        | 2400       | 72        | 38-104       |            |
| 4-Nitrophenol           | ug/kg | 3330        | 2130       | 64        | 34-104       |            |
| Acenaphthene            | ug/kg | 3330        | 2470       | 74        | 43-99        |            |
| Acenaphthylene          | ug/kg | 3330        | 2520       | 75        | 42-101       |            |
| Anthracene              | ug/kg | 3330        | 2660       | 80        | 46-107       |            |
| Benzo(a)anthracene      | ug/kg | 3330        | 2520       | 76        | 45-108       |            |
| Benzo(a)pyrene          | ug/kg | 3330        | 3710       | 111       | 47-113       |            |
| Benzo(b)fluoranthene    | ug/kg | 3330        | 3410       | 102       | 41-110       |            |
| Benzo(g,h,i)perylene    | ug/kg | 3330        | 3730       | 112       | 42-112       |            |
| Benzo(k)fluoranthene    | ug/kg | 3330        | 3580       | 108       | 44-107       | 1d         |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

LABORATORY CONTROL SAMPLE: 1117088

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Chrysene                   | ug/kg | 3330        | 2640       | 79        | 43-103       |            |
| Dibenz(a,h)anthracene      | ug/kg | 3330        | 3790       | 114       | 43-110       | 1d         |
| Fluoranthene               | ug/kg | 3330        | 2750       | 82        | 45-105       |            |
| Fluorene                   | ug/kg | 3330        | 2730       | 82        | 42-103       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 3330        | 3660       | 110       | 43-111       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 3330        | 2400       | 72        | 37-96        |            |
| Naphthalene                | ug/kg | 3330        | 2370       | 71        | 44-100       |            |
| Pentachlorophenol          | ug/kg | 3330        | ND         | 37        | 21-103       |            |
| Phenanthrene               | ug/kg | 3330        | 2540       | 76        | 44-104       |            |
| Phenol                     | ug/kg | 3330        | 2410       | 72        | 37-101       |            |
| Pyrene                     | ug/kg | 3330        | 2800       | 84        | 44-105       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 73        | 16-122       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 72        | 31-94        |            |
| 2-Fluorophenol (S)         | %     |             |            | 70        | 24-104       |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 71        | 28-101       |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 97        | 26-110       |            |
| Phenol-d5 (S)              | %     |             |            | 71        | 28-101       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117089 1117090

| Parameter                  | Units | MS                |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |            |
|----------------------------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
|                            |       | 5099688001 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      | MSD Result |
| 2,4-Dinitrotoluene         | ug/kg | ND                | 3450        | 3470        | 2640      | 2720     | 77        | 78           | 15-102 | 3       | 20   |            |
| 2-Chlorophenol             | ug/kg | ND                | 3450        | 3470        | 2610      | 2440     | 76        | 70           | 22-96  | 7       | 20   |            |
| 2-Methylnaphthalene        | ug/kg | ND                | 3450        | 3470        | 2620      | 2580     | 76        | 74           | 14-107 | 2       | 20   |            |
| 4-Chloro-3-methylphenol    | ug/kg | ND                | 3450        | 3470        | 2780      | 2710     | 81        | 78           | 21-105 | 3       | 20   |            |
| 4-Nitrophenol              | ug/kg | ND                | 3450        | 3470        | 2730      | 2680     | 79        | 77           | 12-107 | 2       | 20   |            |
| Acenaphthene               | ug/kg | ND                | 3450        | 3470        | 2670      | 2630     | 77        | 76           | 19-110 | 1       | 20   |            |
| Acenaphthylene             | ug/kg | ND                | 3450        | 3470        | 2770      | 2780     | 80        | 80           | 21-106 | 0       | 20   |            |
| Anthracene                 | ug/kg | ND                | 3450        | 3470        | 2840      | 2850     | 82        | 82           | 22-112 | 0       | 20   |            |
| Benzo(a)anthracene         | ug/kg | ND                | 3450        | 3470        | 2730      | 2750     | 79        | 79           | 13-116 | 1       | 20   |            |
| Benzo(a)pyrene             | ug/kg | ND                | 3450        | 3470        | 3950      | 4040     | 114       | 116          | 11-119 | 2       | 20   |            |
| Benzo(b)fluoranthene       | ug/kg | ND                | 3450        | 3470        | 3560      | 3830     | 103       | 110          | 10-126 | 7       | 20   |            |
| Benzo(g,h,i)perylene       | ug/kg | ND                | 3450        | 3470        | 3750      | 3850     | 109       | 111          | 10-114 | 3       | 20   |            |
| Benzo(k)fluoranthene       | ug/kg | ND                | 3450        | 3470        | 3960      | 3920     | 115       | 113          | 10-117 | 1       | 20   |            |
| Chrysene                   | ug/kg | ND                | 3450        | 3470        | 2790      | 2850     | 81        | 82           | 14-107 | 2       | 20   |            |
| Dibenz(a,h)anthracene      | ug/kg | ND                | 3450        | 3470        | 3840      | 3950     | 111       | 114          | 10-119 | 3       | 20   |            |
| Fluoranthene               | ug/kg | ND                | 3450        | 3470        | 2880      | 3060     | 83        | 88           | 17-110 | 6       | 20   |            |
| Fluorene                   | ug/kg | ND                | 3450        | 3470        | 2940      | 3000     | 85        | 86           | 17-115 | 2       | 20   |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND                | 3450        | 3470        | 3750      | 3860     | 109       | 111          | 11-111 | 3       | 20   |            |
| N-Nitroso-di-n-propylamine | ug/kg | ND                | 3450        | 3470        | 2690      | 2530     | 78        | 73           | 18-103 | 6       | 20   |            |
| Naphthalene                | ug/kg | ND                | 3450        | 3470        | 2490      | 2380     | 72        | 68           | 16-102 | 4       | 20   |            |
| Pentachlorophenol          | ug/kg | ND                | 3450        | 3470        | 2490      | 2590     | 72        | 75           | 10-100 | 4       | 20   |            |
| Phenanthrene               | ug/kg | ND                | 3450        | 3470        | 2770      | 2830     | 80        | 82           | 10-128 | 2       | 20   |            |
| Phenol                     | ug/kg | ND                | 3450        | 3470        | 2700      | 2550     | 78        | 73           | 22-97  | 6       | 20   |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117089 |       |                      |                |                |              |               |             |              |                 |     |            | 1117090 |  |
|--|-------|----------------------|----------------|----------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|---------|--|
| Parameter                                      | Units | 5099688001<br>Result | MS             | MSD            | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual    |  |
|  |       |                      | Spike<br>Conc. | Spike<br>Conc. |              |               |             |              |                 |     |            |         |  |
| Pyrene   | ug/kg | ND                   | 3450           | 3470           | 2920         | 3120          | 85          | 90           | 10-123          | 6   | 20         |         |  |
| 2,4,6-Tribromophenol (S)                       | %.    |                      |                |                |              |               | 85          | 83           | 16-122          |     |            |         |  |
| 2-Fluorobiphenyl (S)                           | %.    |                      |                |                |              |               | 76          | 75           | 31-94           |     |            |         |  |
| 2-Fluorophenol (S)                             | %.    |                      |                |                |              |               | 75          | 69           | 24-104          |     |            |         |  |
| Nitrobenzene-d5 (S)                            | %.    |                      |                |                |              |               | 73          | 68           | 26-98           |     |            |         |  |
| p-Terphenyl-d14 (S)                            | %.    |                      |                |                |              |               | 99          | 102          | 26-110          |     |            |         |  |
| Phenol-d5 (S)                                  | %.    |                      |                |                |              |               | 78          | 73           | 28-101          |     |            |         |  |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117091 |       |                      |                |                |              |               |             |              |                 |     |            | 1117092 |  |
|--|-------|----------------------|----------------|----------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|---------|--|
| Parameter                                      | Units | 5099688008<br>Result | MS             | MSD            | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual    |  |
|  |       |                      | Spike<br>Conc. | Spike<br>Conc. |              |               |             |              |                 |     |            |         |  |
| 2,4-Dinitrotoluene                             | ug/kg | ND                   | 3790           | 3810           | 2900         | 2580          | 76          | 68           | 15-102          | 11  | 20         |         |  |
| 2-Chlorophenol                                 | ug/kg | ND                   | 3790           | 3810           | 2220         | 2160          | 59          | 57           | 22-96           | 3   | 20         |         |  |
| 2-Methylnaphthalene                            | ug/kg | ND                   | 3790           | 3810           | 2840         | 2680          | 73          | 69           | 14-107          | 6   | 20         |         |  |
| 4-Chloro-3-methylphenol                        | ug/kg | ND                   | 3790           | 3810           | 2440         | 2480          | 64          | 65           | 21-105          | 2   | 20         |         |  |
| 4-Nitrophenol                                  | ug/kg | ND                   | 3790           | 3810           | 2790         | 2400          | 74          | 63           | 12-107          | 15  | 20         |         |  |
| Acenaphthene                                   | ug/kg | ND                   | 3790           | 3810           | 2980         | 2750          | 79          | 72           | 19-110          | 8   | 20         |         |  |
| Acenaphthylene                                 | ug/kg | ND                   | 3790           | 3810           | 2850         | 2640          | 75          | 69           | 21-106          | 8   | 20         |         |  |
| Anthracene                                     | ug/kg | ND                   | 3790           | 3810           | 2880         | 2720          | 76          | 71           | 22-112          | 6   | 20         |         |  |
| Benzo(a)anthracene                             | ug/kg | ND                   | 3790           | 3810           | 2800         | 2760          | 74          | 72           | 13-116          | 2   | 20         |         |  |
| Benzo(a)pyrene                                 | ug/kg | ND                   | 3790           | 3810           | 3380         | 3200          | 89          | 84           | 11-119          | 5   | 20         |         |  |
| Benzo(b)fluoranthene                           | ug/kg | ND                   | 3790           | 3810           | 3720         | 3680          | 98          | 96           | 10-126          | 1   | 20         |         |  |
| Benzo(g,h,i)perylene                           | ug/kg | ND                   | 3790           | 3810           | 2960         | 2790          | 78          | 73           | 10-114          | 6   | 20         |         |  |
| Benzo(k)fluoranthene                           | ug/kg | ND                   | 3790           | 3810           | 3660         | 3630          | 97          | 95           | 10-117          | 1   | 20         |         |  |
| Chrysene                                       | ug/kg | ND                   | 3790           | 3810           | 2900         | 2880          | 77          | 76           | 14-107          | 1   | 20         |         |  |
| Dibenz(a,h)anthracene                          | ug/kg | ND                   | 3790           | 3810           | 3380         | 3060          | 89          | 80           | 10-119          | 10  | 20         |         |  |
| Fluoranthene                                   | ug/kg | ND                   | 3790           | 3810           | 3430         | 3550          | 91          | 93           | 17-110          | 4   | 20         |         |  |
| Fluorene                                       | ug/kg | ND                   | 3790           | 3810           | 3260         | 2970          | 86          | 78           | 17-115          | 10  | 20         |         |  |
| Indeno(1,2,3-cd)pyrene                         | ug/kg | ND                   | 3790           | 3810           | 3120         | 2880          | 83          | 76           | 11-111          | 8   | 20         |         |  |
| N-Nitroso-di-n-propylamine                     | ug/kg | ND                   | 3790           | 3810           | 2890         | 2720          | 76          | 71           | 18-103          | 6   | 20         |         |  |
| Naphthalene                                    | ug/kg | ND                   | 3790           | 3810           | 2860         | 2740          | 73          | 69           | 16-102          | 4   | 20         |         |  |
| Pentachlorophenol                              | ug/kg | ND                   | 3790           | 3810           | 1950         | 1940          | 52          | 51           | 10-100          | 1   | 20         |         |  |
| Phenanthrene                                   | ug/kg | ND                   | 3790           | 3810           | 3130         | 3310          | 81          | 85           | 10-128          | 6   | 20         |         |  |
| Phenol   | ug/kg | ND                   | 3790           | 3810           | 2410         | 2300          | 64          | 60           | 22-97           | 5   | 20         |         |  |
| Pyrene   | ug/kg | ND                   | 3790           | 3810           | 3420         | 3440          | 90          | 90           | 10-123          | 1   | 20         |         |  |
| 2,4,6-Tribromophenol (S)                       | %.    |                      |                |                |              |               | 61          | 64           | 16-122          |     |            |         |  |
| 2-Fluorobiphenyl (S)                           | %.    |                      |                |                |              |               | 76          | 72           | 31-94           |     |            |         |  |
| 2-Fluorophenol (S)                             | %.    |                      |                |                |              |               | 60          | 58           | 24-104          |     |            |         |  |
| Nitrobenzene-d5 (S)                            | %.    |                      |                |                |              |               | 74          | 68           | 26-98           |     |            |         |  |
| p-Terphenyl-d14 (S)                            | %.    |                      |                |                |              |               | 106         | 93           | 26-110          |     |            |         |  |
| Phenol-d5 (S)                                  | %.    |                      |                |                |              |               | 66          | 63           | 28-101          |     |            |         |  |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

QC Batch: OEXT/36206

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 Water MSSV

Associated Lab Samples: 5099688013

METHOD BLANK: 1116331

Matrix: Water

Associated Lab Samples: 5099688013

| Parameter                       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------|-------|--------------|-----------------|----------------|------------|
| 2,4,5-Trichlorophenol           | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2,4,6-Trichlorophenol           | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2,4-Dichlorophenol              | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2,4-Dimethylphenol              | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2,4-Dinitrophenol               | ug/L  | ND           | 50.0            | 06/24/14 16:29 |            |
| 2,4-Dinitrotoluene              | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2,6-Dinitrotoluene              | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2-Chloronaphthalene             | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2-Chlorophenol                  | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2-Methylnaphthalene             | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2-Methylphenol(o-Cresol)        | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2-Nitroaniline                  | ug/L  | ND           | 50.0            | 06/24/14 16:29 |            |
| 2-Nitrophenol                   | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 3&4-Methylphenol(m&p Cresol)    | ug/L  | ND           | 20.0            | 06/24/14 16:29 |            |
| 3,3'-Dichlorobenzidine          | ug/L  | ND           | 20.0            | 06/24/14 16:29 |            |
| 3-Nitroaniline                  | ug/L  | ND           | 50.0            | 06/24/14 16:29 |            |
| 4,6-Dinitro-2-methylphenol      | ug/L  | ND           | 50.0            | 06/24/14 16:29 |            |
| 4-Bromophenylphenyl ether       | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 4-Chloro-3-methylphenol         | ug/L  | ND           | 20.0            | 06/24/14 16:29 |            |
| 4-Chloroaniline                 | ug/L  | ND           | 20.0            | 06/24/14 16:29 |            |
| 4-Chlorophenylphenyl ether      | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 4-Nitroaniline                  | ug/L  | ND           | 50.0            | 06/24/14 16:29 |            |
| 4-Nitrophenol                   | ug/L  | ND           | 50.0            | 06/24/14 16:29 |            |
| Acenaphthene                    | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Acenaphthylene                  | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Anthracene                      | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Benzo(a)anthracene              | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Benzo(a)pyrene                  | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Benzo(b)fluoranthene            | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Benzo(g,h,i)perylene            | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Benzo(k)fluoranthene            | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Benzyl alcohol                  | ug/L  | ND           | 20.0            | 06/24/14 16:29 |            |
| bis(2-Chloroethoxy)methane      | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| bis(2-Chloroethyl) ether        | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| bis(2-Ethylhexyl)phthalate      | ug/L  | ND           | 5.0             | 06/24/14 16:29 |            |
| bis(2chloro1 methylethyl) ether | ug/L  | ND           | 5.0             | 06/24/14 16:29 |            |
| Butylbenzylphthalate            | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Chrysene                        | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Di-n-butylphthalate             | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Di-n-octylphthalate             | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Dibenz(a,h)anthracene           | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

METHOD BLANK: 1116331

Matrix: Water

Associated Lab Samples: 5099688013

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Dibenzofuran               | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Diethylphthalate           | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Dimethylphthalate          | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Fluoranthene               | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Fluorene                   | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Hexachloro-1,3-butadiene   | ug/L  | ND           | 5.0             | 06/24/14 16:29 |            |
| Hexachlorobenzene          | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Hexachlorocyclopentadiene  | ug/L  | ND           | 20.0            | 06/24/14 16:29 |            |
| Hexachloroethane           | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Indeno(1,2,3-cd)pyrene     | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Isophorone                 | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| N-Nitroso-di-n-propylamine | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| N-Nitrosodiphenylamine     | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Naphthalene                | ug/L  | ND           | 5.0             | 06/24/14 16:29 |            |
| Nitrobenzene               | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Pentachlorophenol          | ug/L  | ND           | 50.0            | 06/24/14 16:29 |            |
| Phenanthrene               | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Phenol                     | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| Pyrene                     | ug/L  | ND           | 10.0            | 06/24/14 16:29 |            |
| 2,4,6-Tribromophenol (S)   | %     | 97           | 31-161          | 06/24/14 16:29 |            |
| 2-Fluorobiphenyl (S)       | %     | 85           | 31-118          | 06/24/14 16:29 |            |
| 2-Fluorophenol (S)         | %     | 33           | 10-67           | 06/24/14 16:29 |            |
| Nitrobenzene-d5 (S)        | %     | 90           | 29-126          | 06/24/14 16:29 |            |
| p-Terphenyl-d14 (S)        | %     | 85           | 28-129          | 06/24/14 16:29 |            |
| Phenol-d5 (S)              | %     | 19           | 10-47           | 06/24/14 16:29 |            |

LABORATORY CONTROL SAMPLE: 1116332

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,4-Dinitrotoluene      | ug/L  | 100         | 101        | 101       | 36-126       |            |
| 2-Chlorophenol          | ug/L  | 100         | 60.1       | 60        | 40-98        |            |
| 2-Methylnaphthalene     | ug/L  | 100         | 73.1       | 73        | 36-111       |            |
| 4-Chloro-3-methylphenol | ug/L  | 100         | 69.9       | 70        | 43-113       |            |
| 4-Nitrophenol           | ug/L  | 100         | ND         | 23        | 10-42        |            |
| Acenaphthene            | ug/L  | 100         | 85.9       | 86        | 45-119       |            |
| Acenaphthylene          | ug/L  | 100         | 84.3       | 84        | 46-120       |            |
| Anthracene              | ug/L  | 100         | 96.1       | 96        | 50-129       |            |
| Benzo(a)anthracene      | ug/L  | 100         | 94.1       | 94        | 54-126       |            |
| Benzo(a)pyrene          | ug/L  | 100         | 93.0       | 93        | 59-129       |            |
| Benzo(b)fluoranthene    | ug/L  | 100         | 95.5       | 96        | 53-127       |            |
| Benzo(g,h,i)perylene    | ug/L  | 100         | 92.3       | 92        | 53-125       |            |
| Benzo(k)fluoranthene    | ug/L  | 100         | 91.9       | 92        | 54-125       |            |
| Chrysene                | ug/L  | 100         | 96.5       | 97        | 51-123       |            |
| Dibenz(a,h)anthracene   | ug/L  | 100         | 94.7       | 95        | 52-125       |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

LABORATORY CONTROL SAMPLE: 1116332

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Fluoranthene               | ug/L  | 100         | 94.3       | 94        | 51-127       |            |
| Fluorene                   | ug/L  | 100         | 91.2       | 91        | 46-124       |            |
| Indeno(1,2,3-cd)pyrene     | ug/L  | 100         | 90.1       | 90        | 54-125       |            |
| N-Nitroso-di-n-propylamine | ug/L  | 100         | 87.4       | 87        | 43-120       |            |
| Naphthalene                | ug/L  | 100         | 74.0       | 74        | 39-108       |            |
| Pentachlorophenol          | ug/L  | 100         | 97.6       | 98        | 31-125       |            |
| Phenanthrene               | ug/L  | 100         | 94.5       | 95        | 49-124       |            |
| Phenol                     | ug/L  | 100         | 23.6       | 24        | 10-37        |            |
| Pyrene                     | ug/L  | 100         | 92.0       | 92        | 51-127       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 94        | 31-161       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 91        | 31-118       |            |
| 2-Fluorophenol (S)         | %     |             |            | 31        | 10-67        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 86        | 29-126       |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 88        | 28-129       |            |
| Phenol-d5 (S)              | %     |             |            | 19        | 10-47        |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Sibley-Accucast/2339-356-03-00  
Pace Project No.: 5099688

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- 1d Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in the samples. Results unaffected by high bias
- 2d Multiple compounds are outside acceptance limits due to sample matrix. Refer to LCS for system control and data acceptability. JLZ 07/04/14.
- 3d RPD is outside control limits due to sample non-homogeneity. FRW 6-25-14
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
- N2 The lab does not hold TNI accreditation for this parameter.
- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| Lab ID     | Sample ID     | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|------------|---------------|-----------------|------------|-------------------|------------------|
| 5099688001 | TMW-5(12-14)  | EPA 3546        | OEXT/36237 | EPA 8082          | GCSV/12740       |
| 5099688002 | TMW-5(2-4)    | EPA 3546        | OEXT/36237 | EPA 8082          | GCSV/12740       |
| 5099688003 | TMW-4(14-16)  | EPA 3546        | OEXT/36237 | EPA 8082          | GCSV/12740       |
| 5099688004 | TMW-4(5-7)    | EPA 3546        | OEXT/36245 | EPA 8082          | GCSV/12742       |
| 5099688005 | P-5(10-12)    | EPA 3546        | OEXT/36245 | EPA 8082          | GCSV/12742       |
| 5099688006 | P-5(2-4)      | EPA 3546        | OEXT/36245 | EPA 8082          | GCSV/12742       |
| 5099688007 | TMW-6(14-16)  | EPA 3546        | OEXT/36245 | EPA 8082          | GCSV/12742       |
| 5099688008 | TMW-6(2-4)    | EPA 3546        | OEXT/36245 | EPA 8082          | GCSV/12742       |
| 5099688009 | P-6(10-12)    | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099688010 | P-6(2-4)      | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099688011 | P-3 RE(2-4)   | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099688012 | P-8 RE(0-2)   | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099688013 | SOIL EQ BLANK | EPA 3510        | OEXT/36198 | EPA 8082          | GCSV/12719       |
| 5099688001 | TMW-5(12-14)  | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688002 | TMW-5(2-4)    | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688003 | TMW-4(14-16)  | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688004 | TMW-4(5-7)    | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688005 | P-5(10-12)    | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688006 | P-5(2-4)      | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688007 | TMW-6(14-16)  | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688008 | TMW-6(2-4)    | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688009 | P-6(10-12)    | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688010 | P-6(2-4)      | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688011 | P-3 RE(2-4)   | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688012 | P-8 RE(0-2)   | EPA 3050        | MPRP/13629 | EPA 6010          | ICP/15864        |
| 5099688013 | SOIL EQ BLANK | EPA 3010        | MPRP/13638 | EPA 6010          | ICP/15889        |
| 5099688001 | TMW-5(12-14)  | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688002 | TMW-5(2-4)    | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688003 | TMW-4(14-16)  | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688004 | TMW-4(5-7)    | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688005 | P-5(10-12)    | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688006 | P-5(2-4)      | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688007 | TMW-6(14-16)  | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688008 | TMW-6(2-4)    | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688009 | P-6(10-12)    | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688010 | P-6(2-4)      | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688011 | P-3 RE(2-4)   | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688012 | P-8 RE(0-2)   | EPA 3546        | OEXT/36222 | EPA 8270          | MSSV/15583       |
| 5099688013 | SOIL EQ BLANK | EPA 3510        | OEXT/36206 | EPA 8270          | MSSV/15566       |
| 5099688013 | SOIL EQ BLANK | EPA 8260        | MSV/66354  |                   |                  |
| 5099688001 | TMW-5(12-14)  | EPA 8260        | MSV/66411  |                   |                  |
| 5099688002 | TMW-5(2-4)    | EPA 8260        | MSV/66411  |                   |                  |
| 5099688003 | TMW-4(14-16)  | EPA 8260        | MSV/66411  |                   |                  |
| 5099688004 | TMW-4(5-7)    | EPA 8260        | MSV/66411  |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sibley-Accucast/2339-356-03-00

Pace Project No.: 5099688

| Lab ID     | Sample ID    | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|--------------|-----------------|-----------|-------------------|------------------|
| 5099688005 | P-5(10-12)   | EPA 8260        | MSV/66414 |                   |                  |
| 5099688006 | P-5(2-4)     | EPA 8260        | MSV/66414 |                   |                  |
| 5099688007 | TMW-6(14-16) | EPA 8260        | MSV/66414 |                   |                  |
| 5099688008 | TMW-6(2-4)   | EPA 8260        | MSV/66414 |                   |                  |
| 5099688009 | P-6(10-12)   | EPA 8260        | MSV/66414 |                   |                  |
| 5099688010 | P-6(2-4)     | EPA 8260        | MSV/66414 |                   |                  |
| 5099688001 | TMW-5(12-14) | ASTM D2974-87   | PMST/9615 |                   |                  |
| 5099688002 | TMW-5(2-4)   | ASTM D2974-87   | PMST/9615 |                   |                  |
| 5099688003 | TMW-4(14-16) | ASTM D2974-87   | PMST/9615 |                   |                  |
| 5099688004 | TMW-4(5-7)   | ASTM D2974-87   | PMST/9615 |                   |                  |
| 5099688005 | P-5(10-12)   | ASTM D2974-87   | PMST/9615 |                   |                  |
| 5099688006 | P-5(2-4)     | ASTM D2974-87   | PMST/9615 |                   |                  |
| 5099688007 | TMW-6(14-16) | ASTM D2974-87   | PMST/9616 |                   |                  |
| 5099688008 | TMW-6(2-4)   | ASTM D2974-87   | PMST/9616 |                   |                  |
| 5099688009 | P-6(10-12)   | ASTM D2974-87   | PMST/9616 |                   |                  |
| 5099688010 | P-6(2-4)     | ASTM D2974-87   | PMST/9616 |                   |                  |
| 5099688011 | P-3 RE(2-4)  | ASTM D2974-87   | PMST/9616 |                   |                  |
| 5099688012 | P-8 RE(0-2)  | ASTM D2974-87   | PMST/9616 |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

*MS*

**Section A**  
Required Client Information:  
Company: Warrior Boos Consulting  
Address: 7121 Grape Rd.  
Email To: S.Stanford@warboos.com  
Phone: 574-271-3497  
Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
Required Project Information:  
Report To: Steve Stanford  
Copy To: ahung@warboos.com  
Purchase Order No.: \_\_\_\_\_  
Project Name: Sibley - Accucast  
Project Number: 2339-356-03-00

**Section C**  
Invoice Information:  
Attention: Cyle Cable  
Company Name: Pace Analytical  
Address: 7726 Madler Rd.  
Pace Quote Reference: \_\_\_\_\_  
Pace Project Manager: Cyle Cable  
Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**  
NPDES  GROUND WATER  DRINKING WATER   
UST  RCRA  OTHER   
Site Location: \_\_\_\_\_  
STATE: IN

Page: 1 of 2  
1803901

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | COLLECTED       |                    | SAMPLE TYPE (G=GRAB C=COMP)<br>(see valid codes to left) | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test ↑<br>Y/N | Requested Analysis Filtered (Y/N) | Temp In °C | Received on<br>Ice (Y/N) | Custody<br>Sealed Cooler (Y/N) | Samples Intact<br>(Y/N) |
|--------|--|-------------------------------|-----------------|--------------------|--|---------------------------|-----------------|---------------|------------------------|-----------------------------------|------------|--------------------------|--------------------------------|-------------------------|
|        |  |                               | COMPOSITE START | COMPOSITE END/GRAB |  |                           |                 |               |                        |                                   |            |                          |                                |                         |
| 1      | TMW-5 (12-14)                            | DW                            | 6/20            | 13:20              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   | 3.8        | Y                        | Y                              |                         |
| 2      | TMW-5 (12-14) MJS                        | WT                            | 6/20            | 13:20              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   | 2.0        | Y                        | Y                              |                         |
| 3      | TMW-5 (12-14) MSA                        | WW                            | 6/20            | 13:20              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |
| 4      | TMW-5 (2-4)                              | P                             | 6/20            | 12:05              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |
| 5      | TMW-4 (14-16)                            | SL                            | 6/20            | 12:05              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |
| 6      | TMW-4 (5-7)                              | SL                            | 6/20            | 11:55              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |
| 7      | P-5 (10-12)                              | WP                            | 6/20            | 11:05              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |
| 8      | P-5 (2-4)                                | AR                            | 6/20            | 10:50              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |
| 9      | TMW-6 (14-16)                            | TS                            | 6/20            | 10:30              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |
| 10     | TMW-6 (2-4)                              | OT                            | 6/20            | 10:00              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |
| 11     | TMW-6 (2-4) MJS                          |                               | 6/20            | 10:00              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |
| 12     | TMW-6 (2-4) MSP                          |                               | 6/20            | 10:00              | G  | 6                         | Unpreserved     | NOCS          | Y                      |                                   |            |                          |                                |                         |

**ADDITIONAL COMMENTS**  
Hex Cr analysis only done if authorized by project manager Alex  
Obtain samples

**RELINQUISHED BY / AFFILIATION**  
Alex Huang  
6-21-19 10:54  
16:00

**ACCEPTED BY / AFFILIATION**  
[Signature]  
6-21-19 10:54  
3.8

**DATE**  
6-21-19 10:54  
3.8

**DATE**  
6-21-19 10:54  
3.8

**DATE SIGNED (MM/DD/YY)**  
06/20/19

**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER: Alex Huang  
SIGNATURE of SAMPLER: [Signature]

**ORIGINAL**



**Sample Condition Upon Receipt**



Client Name: Weaver Boo Project # 5099688

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other

Tracking #: 805551445174

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Date/Time 5035A kits placed in freezer

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Cooler Temperature 3.8, 2.0 Ice Visible in Sample Containers:  yes  no

Temp should be above freezing to 6°C

Comments: Date and initials of person examining contents: CP 6-21-14

|   |  |                                 |
|---|--|---------------------------------|
| Chain of Custody Present:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 1.                              |
| Chain of Custody Filled Out:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 2.                              |
| Chain of Custody Relinquished:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 3.                              |
| Sampler Name & Signature on COC:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 4.                              |
| Short Hold Time Analysis (<72hr):   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A                                 | 5.                              |
| Rush Turn Around Time Requested:  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A                                 | 6.                              |
| Containers Intact:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 7.                              |
| Sample Labels match COC:<br>-Includes date/time/ID/Analysis   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 8.                              |
| All containers needing acid/base pres. have been checked?<br>exceptions: VOA, coliform, TOC, O&G                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br><i>CP 6-21-14</i> | 9. (Circle) HNO3 H2SO4 NaOH HCl |
| All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted. |  |                                 |
| Headspace in VOA Vials (>6mm):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br><i>CP 6-21-14</i> | 10.                             |
| Trip Blank Present:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A                                 | 11.                             |
| Trip Blank Custody Seals Present  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                 |                                 |
| <b>Project Manager Review</b>   |  |                                 |
| Samples Arrived within Hold Time:   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 12.                             |
| Sufficient Volume:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 13.                             |
| Correct Containers Used:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 14.                             |

**Client Notification/ Resolution:**

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: *[Signature]*

Date: 6/21/14



# Sample Container Count



CLIENT: Weaver Boos

COC PAGE 1 of 2  
 COC ID# 1803901

Project # 5099608

| Sample Line Item | DG9H | AG1U | WG9U | AG0U | R | 4/6 | BP2N | BP2U | BP2S | BP3N | BP3U | BP3S | AG3S | AG1H | BP3C | BP1U | SPST | pH <2 | pH >12 | Comments |  |
|------------------|------|------|------|------|---|-----|------|------|------|------|------|------|------|------|------|------|------|-------|--------|----------|--|
| 1                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 2                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 3                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 4                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 5                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 6                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 7                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 8                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 9                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 10               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 11               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 12               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |

| Container Codes | DG9H                | AG1U                           | WG9U               | AG0U                          | AG1H                    | AG1S                      | AG1T                               | AG2N               | AG2S                      | AG2U                | AG3U               | BG1H                      | BG1S                | BG1T                      | BG1U                               | BP1A                           | BP1N                 | BP1S                  | BP1U                        | BP1Z                 | BP2A                         | BP2O               | BP2Z              | AF         | BP3C               | BP3Z                      | C             | DG9B                         | DG9M                 | DG9P                | DG9S                  | DG9T                    | DG9U                        | JGFU      | VG9H                       | VG9T      | VG9U                | VSG                      | WGFX                        | ZPLC                       |                            |            |
|-----------------|---------------------|--------------------------------|--------------------|-------------------------------|-------------------------|---------------------------|------------------------------------|--------------------|---------------------------|---------------------|--------------------|---------------------------|---------------------|---------------------------|------------------------------------|--------------------------------|----------------------|-----------------------|-----------------------------|----------------------|------------------------------|--------------------|-------------------|------------|--------------------|---------------------------|---------------|------------------------------|----------------------|---------------------|-----------------------|-------------------------|-----------------------------|-----------|----------------------------|-----------|---------------------|--------------------------|-----------------------------|----------------------------|----------------------------|------------|
|                 | 40mL HCL amber vial | 1liter unpreserved amber glass | 4oz clear soil jar | 100mL unpreserved amber glass | 1 liter HCL amber glass | 1 liter H2SO4 amber glass | 1 liter Na Thiosulfate amber glass | 500mL HNO3 plastic | 500mL unpreserved plastic | 500mL H2SO4 plastic | 250mL HNO3 plastic | 250mL unpreserved plastic | 250mL H2SO4 plastic | 1 liter H2SO4 clear glass | 1 liter Na Thiosulfate clear glass | 1 liter NaOH, Asc Acid plastic | 1 liter HNO3 plastic | 1 liter H2SO4 plastic | 1 liter unpreserved plastic | 1 liter NaOH, Zn, Ac | 500mL NaOH, Asc Acid plastic | 500mL NaOH plastic | 500mL NaOH, Zn Ac | Air Filter | 250mL NaOH plastic | 250mL NaOH, Zn Ac plastic | Air Cassettes | 40mL Na Bisulfate amber vial | 40mL MeOH clear vial | 40mL TSP amber vial | 40mL H2SO4 amber vial | 40mL Na Thio amber vial | 40mL unpreserved amber vial | Wipe/Swab | 4oz unpreserved amber wide | Summa Can | 40mL HCL clear vial | 40mL Na Thio. clear vial | 40mL unpreserved clear vial | Headspace septa vial & HCL | 4oz wide jar w/hexane wipe | Ziploc Bag |

Sample Container Count



CLIENT: Weaver Boas

COC PAGE 2 of 3  
 COC ID# 1805000

Project # 5099688

| Sample Line Item | DC9H | AG1U | WGFU | AG0U | R | 4/6 | BP2N | BP2U | BP2S | BP3N | BP3U | BP3S | AG3S | AG1H | BP3C | BP1U | SPST | pH <2 | pH >12 | Comments |  |
|------------------|------|------|------|------|---|-----|------|------|------|------|------|------|------|------|------|------|------|-------|--------|----------|--|
| 1                |      |      | 2    |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 2                |      |      | 2    |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 3                |      |      | 2    |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 4                |      |      | 2    |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 5                |      |      | 3    | 2    |   |     |      |      |      | 1    |      |      |      |      |      |      |      |       |        |          |  |
| 6                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 7                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 8                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 9                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 10               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 11               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 12               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |

| Container Codes | 40mL HCL amber vial             | AG0U | 100mL unpreserved amber glass      | BP1N | 1 liter HNO3 plastic         | DG9P | 40mL TSP amber vial         |
|-----------------|---------------------------------|------|------------------------------------|------|------------------------------|------|-----------------------------|
| DC9H            | 40mL HCL amber vial             | AG0U | 100mL unpreserved amber glass      | BP1N | 1 liter HNO3 plastic         | DG9P | 40mL TSP amber vial         |
| AG1U            | 1 liter unpreserved amber glass | AG1H | 1 liter HCL clear glass            | BP1S | 1 liter H2SO4 plastic        | DG9S | 40mL H2SO4 amber vial       |
| WGFU            | 4oz clear soil jar              | AG1S | 1 liter H2SO4 amber glass          | BP1U | 1 liter unpreserved plastic  | DG9T | 40mL Na Thio amber vial     |
| R               | terra core kit                  | AG1T | 1 liter Na Thiosulfate amber glass | BP1Z | 1 liter NaOH, Zn, Ac         | DG9U | 40mL unpreserved amber vial |
| BP2N            | 500mL HNO3 plastic              | AG2N | 500mL HNO3 amber glass             | BP2A | 500mL NaOH, Asc Acid plastic | JGFU | 4oz unpreserved amber wide  |
| BP2U            | 500mL unpreserved plastic       | AG2S | 500mL H2SO4 amber glass            | BP2O | 500mL NaOH plastic           | U    | Summa Can                   |
| BP2S            | 500mL H2SO4 plastic             | AG2U | 500mL unpreserved amber glass      | BP2Z | 500mL NaOH, Zn Ac            | VG9H | 40mL HCL clear vial         |
| BP3N            | 250mL HNO3 plastic              | AG3U | 250mL unpreserved amber glass      | AF   | Air Filter                   | VG9T | 40mL Na Thio. clear vial    |
| BP3U            | 250mL unpreserved plastic       | BG1H | 1 liter HCL clear glass            | BP3C | 250mL NaOH plastic           | VG9U | 40mL unpreserved clear vial |
| BP3S            | 250mL H2SO4 plastic             | BG1S | 1 liter H2SO4 clear glass          | BP3Z | 250mL NaOH, Zn Ac plastic    | VSG  | Headspace septa vial & HCL  |
| AG3S            | 250mL H2SO4 glass amber         | BG1T | 1 liter Na Thiosulfate clear glass | C    | Air Cassettes                | WGFX | 4oz wide jar w/hexane wipe  |
| AG1S            | 1 liter H2SO4 amber glass       | BG1U | 1 liter unpreserved glass          | DG9B | 40mL Na Bisulfate amber vial | ZPLC | Ziploc Bag                  |
| BP1U            | 1 liter unpreserved plastic     | BP1A | 1 liter NaOH, Asc Acid plastic     | DG9M | 40mL MeOH clear vial         |      |                             |

July 17, 2014

Mr. Steve Stanford  
Weaver Boos & Gordon  
7121 Grape Road  
Granger, IN 46530

RE: Project: Sibley-Accucast  
Pace Project No.: 5099765

Dear Mr. Stanford:

Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lyle Cable  
lyle.cable@pacelabs.com  
Project Manager

Enclosures

cc: Mr. Alex Huang, Weaver Boos



## REPORT OF LABORATORY ANALYSIS

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Columbus, OH 43215  
(614)486-5421

**Pace Analytical Services, Inc.**  
7726 Moller Road  
Indianapolis, IN 46268  
(317)228-3100

## CERTIFICATIONS

Project: Sibley-Accucast  
Pace Project No.: 5099765

---

### Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268  
Illinois Certification #: 200074  
Indiana Certification #: C-49-06  
Kansas Certification #: E-10247

Kentucky UST Certification #: 0042  
Louisiana/NELAP Certification #: 04076  
Ohio VAP Certification #: CL-0065  
West Virginia Certification #: 330

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Sibley-Accucast

Pace Project No.: 5099765

| Lab ID     | Sample ID      | Matrix | Date Collected | Date Received  |
|------------|----------------|--------|----------------|----------------|
| 5099765001 | P-10 (2-4)     | Solid  | 06/23/14 15:35 | 06/24/14 12:10 |
| 5099765002 | P-10 (12-14)   | Solid  | 06/23/14 15:50 | 06/24/14 12:10 |
| 5099765003 | TMW-10 (3-5)   | Solid  | 06/23/14 14:45 | 06/24/14 12:10 |
| 5099765004 | TMW-10 (10-12) | Solid  | 06/23/14 14:55 | 06/24/14 12:10 |
| 5099765005 | TMW-2 (3-5)    | Solid  | 06/23/14 13:15 | 06/24/14 12:10 |
| 5099765006 | TMW-2 (13-15)  | Solid  | 06/23/14 13:30 | 06/24/14 12:10 |
| 5099765007 | P-1 (1-3)      | Solid  | 06/23/14 12:35 | 06/24/14 12:10 |
| 5099765008 | P-1 (18-20)    | Solid  | 06/23/14 12:50 | 06/24/14 12:10 |
| 5099765009 | TMW-1 (1-3)    | Solid  | 06/23/14 11:45 | 06/24/14 12:10 |
| 5099765010 | TMW-1 (11-13)  | Solid  | 06/23/14 12:00 | 06/24/14 12:10 |
| 5099765011 | TMW-8 (1-3)    | Solid  | 06/23/14 10:40 | 06/24/14 12:10 |
| 5099765012 | TMW-8 (10-12)  | Solid  | 06/23/14 11:00 | 06/24/14 12:10 |
| 5099765013 | P-2 (1-3)      | Solid  | 06/23/14 10:10 | 06/24/14 12:10 |
| 5099765014 | P-2 (18-20)    | Solid  | 06/23/14 10:30 | 06/24/14 12:10 |
| 5099765015 | Subsurf-Dup    | Solid  | 06/23/14 08:00 | 06/24/14 12:10 |
| 5099765016 | Trip Blank-2   | Solid  | 06/23/14 08:00 | 06/24/14 12:10 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Sibley-Accucast

Pace Project No.: 5099765

| Lab ID     | Sample ID      | Method                         | Analysts | Analytes Reported |
|------------|----------------|--------------------------------|----------|-------------------|
| 5099765001 | P-10 (2-4)     | EPA 8082                       | DMT      | 8                 |
|            |                | EPA 6010                       | FRW      | 8                 |
|            |                | EPA 8270                       | SN       | 66                |
|            |                | EPA 8260                       | ALA      | 73                |
|            |                | ASTM D2974-87                  | WDB      | 1                 |
| 5099765002 | P-10 (12-14)   | EPA 8082                       | DMT      | 8                 |
|            |                | EPA 6010                       | FRW      | 8                 |
|            |                | EPA 8270                       | SN       | 66                |
|            |                | EPA 8260                       | ALA      | 73                |
|            |                | ASTM D2974-87                  | WDB      | 1                 |
| 5099765003 | TMW-10 (3-5)   | EPA 8082                       | DMT      | 8                 |
|            |                | EPA 6010                       | FRW      | 8                 |
|            |                | EPA 8270                       | SN       | 66                |
|            |                | EPA 8260                       | ALA      | 73                |
|            |                | ASTM D2974-87                  | WDB      | 1                 |
| 5099765004 | TMW-10 (10-12) | EPA 8082                       | DMT      | 8                 |
|            |                | EPA 6010                       | FRW      | 8                 |
|            |                | EPA 8270                       | SN       | 66                |
|            |                | EPA 8260                       | ALA      | 73                |
|            |                | ASTM D2974-87                  | WDB      | 1                 |
| 5099765005 | TMW-2 (3-5)    | EPA 8082                       | DMT      | 8                 |
|            |                | EPA 6010                       | FRW      | 8                 |
|            |                | EPA 8270                       | SN       | 66                |
|            |                | EPA 8260                       | ALA      | 73                |
|            |                | ASTM D2974-87                  | WDB      | 1                 |
| 5099765006 | TMW-2 (13-15)  | EPA 8082                       | DMT      | 8                 |
|            |                | EPA 6010                       | FRW      | 8                 |
|            |                | EPA 8270                       | SN       | 66                |
|            |                | EPA 8260                       | ALA      | 73                |
|            |                | ASTM D2974-87                  | WDB      | 1                 |
| 5099765007 | P-1 (1-3)      | EPA 8082                       | DMT      | 8                 |
|            |                | EPA 6010                       | FRW      | 8                 |
|            |                | EPA 8270                       | SN       | 66                |
|            |                | EPA 8260                       | ALA      | 73                |
|            |                | ASTM D2974-87                  | WDB      | 1                 |
|            |                | EPA 7196A                      | TPD      | 1                 |
|            |                | Trivalent Chromium Calculation | SLB      | 1                 |

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### SAMPLE ANALYTE COUNT

Project: Sibley-Accucast

Pace Project No.: 5099765

| Lab ID     | Sample ID     | Method                         | Analysts | Analytes Reported |
|------------|---------------|--------------------------------|----------|-------------------|
| 5099765008 | P-1 (18-20)   | EPA 8082                       | DMT      | 8                 |
|            |               | EPA 6010                       | FRW      | 8                 |
|            |               | EPA 8270                       | SN       | 66                |
|            |               | EPA 8260                       | ALA      | 73                |
|            |               | ASTM D2974-87                  | WDB      | 1                 |
| 5099765009 | TMW-1 (1-3)   | EPA 8082                       | DMT      | 8                 |
|            |               | EPA 6010                       | FRW      | 8                 |
|            |               | EPA 8270                       | SN       | 66                |
|            |               | EPA 8260                       | ALA      | 73                |
|            |               | ASTM D2974-87                  | WDB      | 1                 |
| 5099765010 | TMW-1 (11-13) | EPA 8082                       | DMT      | 8                 |
|            |               | EPA 6010                       | FRW      | 8                 |
|            |               | EPA 8270                       | SN       | 66                |
|            |               | EPA 8260                       | ALA      | 73                |
|            |               | ASTM D2974-87                  | WDB      | 1                 |
| 5099765011 | TMW-8 (1-3)   | EPA 8082                       | DMT      | 8                 |
|            |               | EPA 6010                       | FRW      | 8                 |
|            |               | EPA 8270                       | SN       | 66                |
|            |               | EPA 8260                       | ALA      | 73                |
|            |               | ASTM D2974-87                  | WDB      | 1                 |
|            |               | EPA 7196A                      | TPD      | 1                 |
| 5099765012 | TMW-8 (10-12) | Trivalent Chromium Calculation | SLB      | 1                 |
|            |               | EPA 8082                       | DMT      | 8                 |
|            |               | EPA 6010                       | FRW      | 8                 |
|            |               | EPA 8270                       | SN       | 66                |
|            |               | EPA 8260                       | ALA      | 73                |
| 5099765013 | P-2 (1-3)     | ASTM D2974-87                  | WDB      | 1                 |
|            |               | EPA 8082                       | DMT      | 8                 |
|            |               | EPA 6010                       | FRW      | 8                 |
|            |               | EPA 8270                       | SN       | 66                |
|            |               | EPA 8260                       | ALA      | 73                |
| 5099765014 | P-2 (18-20)   | ASTM D2974-87                  | WDB      | 1                 |
|            |               | EPA 8082                       | DMT      | 8                 |
|            |               | EPA 6010                       | FRW      | 8                 |
|            |               | EPA 8270                       | SN       | 66                |
|            |               | EPA 8260                       | ALA      | 73                |
|            |               | ASTM D2974-87                  | WDB      | 1                 |

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### SAMPLE ANALYTE COUNT

Project: Sibley-Accucast

Pace Project No.: 5099765

| Lab ID     | Sample ID    | Method        | Analysts | Analytes Reported |
|------------|--------------|---------------|----------|-------------------|
| 5099765015 | Subsurf-Dup  | EPA 8082      | DMT      | 8                 |
|            |              | EPA 6010      | FRW      | 8                 |
|            |              | EPA 8270      | SN       | 66                |
|            |              | EPA 8260      | ALA      | 73                |
|            |              | ASTM D2974-87 | WDB      | 1                 |
| 5099765016 | Trip Blank-2 | EPA 8260      | ALA      | 73                |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-10 (2-4)**      **Lab ID: 5099765001**      Collected: 06/23/14 15:35      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                            | Results | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|--|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg  | 110          | 1  | 06/27/14 12:25 | 07/01/14 17:55 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg  | 110          | 1  | 06/27/14 12:25 | 07/01/14 17:55 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg  | 110          | 1  | 06/27/14 12:25 | 07/01/14 17:55 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg  | 110          | 1  | 06/27/14 12:25 | 07/01/14 17:55 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg  | 110          | 1  | 06/27/14 12:25 | 07/01/14 17:55 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg  | 110          | 1  | 06/27/14 12:25 | 07/01/14 17:55 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg  | 110          | 1  | 06/27/14 12:25 | 07/01/14 17:55 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |  |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 82 %.   |  | 30-106       | 1  | 06/27/14 12:25 | 07/01/14 17:55 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010 Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 11:32 | 7440-36-0  |      |
| Arsenic                               | 2.0     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 11:32 | 7440-38-2  |      |
| Chromium                              | 7.4     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 11:32 | 7440-47-3  |      |
| Cobalt                                | 5.3     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 11:32 | 7440-48-4  |      |
| Iron                                  | 7180    | mg/kg  | 53.3         | 1  | 06/26/14 09:35 | 06/27/14 11:32 | 7439-89-6  |      |
| Lead                                  | 5.5     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 11:32 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 11:32 | 7782-49-2  |      |
| Thallium                              | 2.3     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 11:32 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg  | 189          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg  | 732          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg  | 732          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg  | 732          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg  | 189          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg  | 732          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 120-83-2   |      |
| Diethylphthalate                      | ND      | ug/kg  | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 84-66-2    |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-10 (2-4)**      **Lab ID: 5099765001**      Collected: 06/23/14 15:35      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1770         | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1770         | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 732          | 1  | 06/26/14 13:03 | 06/27/14 17:57 |           |      |
| Naphthalene  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1770         | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1770         | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1770         | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1770         | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1770         | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 366          | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 80 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 83 %.   |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 104 %.  |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 1718-51-0 |      |
| Phenol-d5 (S)  | 86 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 83 %.   |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 93 %.   |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 17:57 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |                  |       |      |                |                         |
|----------|------------------|-------|------|----------------|-------------------------|
| Acetone  | <b>153</b> ug/kg | 75.7  | 1    | 07/03/14 09:02 | 67-64-1                 |
| Acrolein | ND               | ug/kg | 75.7 | 1              | 07/03/14 09:02 107-02-8 |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

Sample: P-10 (2-4) Lab ID: 5099765001 Collected: 06/23/14 15:35 Received: 06/24/14 12:10 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 75.7         | 1  |          | 07/03/14 09:02 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 18.9         | 1  |          | 07/03/14 09:02 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 7.6          | 1  |          | 07/03/14 09:02 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 75.7         | 1  |          | 07/03/14 09:02 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 75.7         | 1  |          | 07/03/14 09:02 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 75.7         | 1  |          | 07/03/14 09:02 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 75.7         | 1  |          | 07/03/14 09:02 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 3.8          | 1  |          | 07/03/14 09:02 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-10 (2-4)**      **Lab ID: 5099765001**      Collected: 06/23/14 15:35      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND            | ug/kg                            | 15.1         | 1  |          | 07/03/14 09:02 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 18.9         | 1  |          | 07/03/14 09:02 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 75.7         | 1  |          | 07/03/14 09:02 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 3.8          | 1  |          | 07/03/14 09:02 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 7.6          | 1  |          | 07/03/14 09:02 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 110 %.        |                                  | 85-118       | 1  |          | 07/03/14 09:02 | 1868-53-7 |      |
| Toluene-d8 (S)              | 92 %.         |                                  | 71-128       | 1  |          | 07/03/14 09:02 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 104 %.        |                                  | 56-144       | 1  |          | 07/03/14 09:02 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>10.1</b> % |                                  | 0.10         | 1  |          | 06/26/14 15:15 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-10 (12-14)**      **Lab ID: 5099765002**      Collected: 06/23/14 15:50      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|--|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg  | 102          | 1  | 06/27/14 12:25 | 07/01/14 18:13 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg  | 102          | 1  | 06/27/14 12:25 | 07/01/14 18:13 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg  | 102          | 1  | 06/27/14 12:25 | 07/01/14 18:13 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg  | 102          | 1  | 06/27/14 12:25 | 07/01/14 18:13 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg  | 102          | 1  | 06/27/14 12:25 | 07/01/14 18:13 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg  | 102          | 1  | 06/27/14 12:25 | 07/01/14 18:13 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg  | 102          | 1  | 06/27/14 12:25 | 07/01/14 18:13 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |  |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 79 %.   |  | 30-106       | 1  | 06/27/14 12:25 | 07/01/14 18:13 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010 Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg  | 0.97         | 1  | 06/26/14 09:35 | 06/27/14 11:42 | 7440-36-0  |      |
| Arsenic                               | 1.3     | mg/kg  | 0.97         | 1  | 06/26/14 09:35 | 06/27/14 11:42 | 7440-38-2  |      |
| Chromium                              | 2.4     | mg/kg  | 0.97         | 1  | 06/26/14 09:35 | 06/27/14 11:42 | 7440-47-3  |      |
| Cobalt                                | 1.2     | mg/kg  | 0.97         | 1  | 06/26/14 09:35 | 06/27/14 11:42 | 7440-48-4  |      |
| Iron                                  | 2630    | mg/kg  | 48.3         | 1  | 06/26/14 09:35 | 06/27/14 11:42 | 7439-89-6  |      |
| Lead                                  | 2.0     | mg/kg  | 0.97         | 1  | 06/26/14 09:35 | 06/27/14 11:42 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg  | 0.97         | 1  | 06/26/14 09:35 | 06/27/14 11:42 | 7782-49-2  |      |
| Thallium                              | 1.6     | mg/kg  | 0.97         | 1  | 06/26/14 09:35 | 06/27/14 11:42 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg  | 173          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg  | 671          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg  | 671          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg  | 671          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg  | 173          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg  | 671          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 120-83-2   |      |
| Diethylphthalate                      | ND      | ug/kg  | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 84-66-2    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-10 (12-14)**      **Lab ID: 5099765002**      Collected: 06/23/14 15:50      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 671          | 1  | 06/26/14 13:03 | 06/27/14 18:20 |           |      |
| Naphthalene  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 336          | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 84 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 87 %.   |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 102 %.  |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 1718-51-0 |      |
| Phenol-d5 (S)  | 89 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 87 %.   |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 92 %.   |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 18:20 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |      |   |  |                |          |  |
|----------|----|-------|------|---|--|----------------|----------|--|
| Acetone  | ND | ug/kg | 95.0 | 1 |  | 07/03/14 09:29 | 67-64-1  |  |
| Acrolein | ND | ug/kg | 95.0 | 1 |  | 07/03/14 09:29 | 107-02-8 |  |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

Sample: P-10 (12-14) Lab ID: 5099765002 Collected: 06/23/14 15:50 Received: 06/24/14 12:10 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 95.0         | 1  |          | 07/03/14 09:29 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 23.7         | 1  |          | 07/03/14 09:29 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.5          | 1  |          | 07/03/14 09:29 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 95.0         | 1  |          | 07/03/14 09:29 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 95.0         | 1  |          | 07/03/14 09:29 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 95.0         | 1  |          | 07/03/14 09:29 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 95.0         | 1  |          | 07/03/14 09:29 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 4.7          | 1  |          | 07/03/14 09:29 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-10 (12-14)**      **Lab ID: 5099765002**      Collected: 06/23/14 15:50      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND           | ug/kg                            | 19.0         | 1  |          | 07/03/14 09:29 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 23.7         | 1  |          | 07/03/14 09:29 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 95.0         | 1  |          | 07/03/14 09:29 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 4.7          | 1  |          | 07/03/14 09:29 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 9.5          | 1  |          | 07/03/14 09:29 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 114 %.       |                                  | 85-118       | 1  |          | 07/03/14 09:29 | 1868-53-7 |      |
| Toluene-d8 (S)              | 93 %.        |                                  | 71-128       | 1  |          | 07/03/14 09:29 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 103 %.       |                                  | 56-144       | 1  |          | 07/03/14 09:29 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>2.3 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:15 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: TMW-10 (3-5)**      **Lab ID: 5099765003**      Collected: 06/23/14 14:45      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|---|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082      Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg   | 109          | 1  | 06/27/14 12:25 | 07/01/14 18:18 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg   | 109          | 1  | 06/27/14 12:25 | 07/01/14 18:18 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg   | 109          | 1  | 06/27/14 12:25 | 07/01/14 18:18 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg   | 109          | 1  | 06/27/14 12:25 | 07/01/14 18:18 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg   | 109          | 1  | 06/27/14 12:25 | 07/01/14 18:18 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg   | 109          | 1  | 06/27/14 12:25 | 07/01/14 18:18 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg   | 109          | 1  | 06/27/14 12:25 | 07/01/14 18:18 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |   |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 90 %.   |   | 30-106       | 1  | 06/27/14 12:25 | 07/01/14 18:18 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010      Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg   | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 11:44 | 7440-36-0  |      |
| Arsenic                               | 4.1     | mg/kg   | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 11:44 | 7440-38-2  |      |
| Chromium                              | 9.4     | mg/kg   | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 11:44 | 7440-47-3  |      |
| Cobalt                                | 2.8     | mg/kg   | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 11:44 | 7440-48-4  |      |
| Iron                                  | 10300   | mg/kg   | 51.5         | 1  | 06/26/14 09:35 | 06/27/14 11:44 | 7439-89-6  |      |
| Lead                                  | 5.9     | mg/kg   | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 11:44 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg   | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 11:44 | 7782-49-2  |      |
| Thallium                              | 3.2     | mg/kg   | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 11:44 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270      Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg   | 184          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg   | 715          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg   | 715          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg   | 715          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg   | 184          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg   | 715          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 120-83-2   |      |
| Diethylphthalate                      | ND      | ug/kg   | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 84-66-2    |      |

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: Sibley-Accucast

Pace Project No.: 5099765

Sample: **TMW-10 (3-5)** Lab ID: **5099765003** Collected: 06/23/14 14:45 Received: 06/24/14 12:10 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters   | Results  | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|----------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |          |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 105-67-9  |      |
| Dimethylphthalate  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 131-11-3  |      |
| Di-n-butylphthalate  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND ug/kg |       | 1730         | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND ug/kg |       | 1730         | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 606-20-2  |      |
| Di-n-octylphthalate  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 117-81-7  |      |
| Fluoranthene   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 206-44-0  |      |
| Fluorene   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 87-68-3   |      |
| Hexachlorobenzene  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 77-47-4   |      |
| Hexachloroethane   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 193-39-5  |      |
| Isophorone   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND ug/kg |       | 715          | 1  | 06/26/14 13:03 | 06/27/14 18:42 |           |      |
| Naphthalene  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 91-20-3   |      |
| 2-Nitroaniline   | ND ug/kg |       | 1730         | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 88-74-4   |      |
| 3-Nitroaniline   | ND ug/kg |       | 1730         | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 99-09-2   |      |
| 4-Nitroaniline   | ND ug/kg |       | 1730         | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 100-01-6  |      |
| Nitrobenzene   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 98-95-3   |      |
| 2-Nitrophenol  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 88-75-5   |      |
| 4-Nitrophenol  | ND ug/kg |       | 1730         | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 86-30-6   |      |
| Pentachlorophenol  | ND ug/kg |       | 1730         | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 87-86-5   |      |
| Phenanthrene   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 85-01-8   |      |
| Phenol   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 108-95-2  |      |
| Pyrene   | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND ug/kg |       | 357          | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 88-06-2   |      |
| <b>Surrogates</b>  |          |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 82 %.    |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 85 %.    |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 102 %.   |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 1718-51-0 |      |
| Phenol-d5 (S)  | 84 %.    |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 82 %.    |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 89 %.    |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 18:42 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |          |  |      |   |  |                |          |  |
|----------|----------|--|------|---|--|----------------|----------|--|
| Acetone  | ND ug/kg |  | 90.3 | 1 |  | 07/03/14 09:56 | 67-64-1  |  |
| Acrolein | ND ug/kg |  | 90.3 | 1 |  | 07/03/14 09:56 | 107-02-8 |  |

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### ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

Sample: **TMW-10 (3-5)** Lab ID: **5099765003** Collected: 06/23/14 14:45 Received: 06/24/14 12:10 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 90.3         | 1  |          | 07/03/14 09:56 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 22.6         | 1  |          | 07/03/14 09:56 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.0          | 1  |          | 07/03/14 09:56 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 90.3         | 1  |          | 07/03/14 09:56 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 90.3         | 1  |          | 07/03/14 09:56 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 90.3         | 1  |          | 07/03/14 09:56 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 90.3         | 1  |          | 07/03/14 09:56 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 4.5          | 1  |          | 07/03/14 09:56 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-10 (3-5)**      **Lab ID: 5099765003**      Collected: 06/23/14 14:45      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND           | ug/kg                            | 18.1         | 1  |          | 07/03/14 09:56 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 22.6         | 1  |          | 07/03/14 09:56 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 90.3         | 1  |          | 07/03/14 09:56 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 4.5          | 1  |          | 07/03/14 09:56 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 9.0          | 1  |          | 07/03/14 09:56 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 104 %.       |                                  | 85-118       | 1  |          | 07/03/14 09:56 | 1868-53-7 |      |
| Toluene-d8 (S)              | 93 %.        |                                  | 71-128       | 1  |          | 07/03/14 09:56 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 104 %.       |                                  | 56-144       | 1  |          | 07/03/14 09:56 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>8.2 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:16 |           |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

Sample: **TMW-10 (10-12)** Lab ID: **5099765004** Collected: 06/23/14 14:55 Received: 06/24/14 12:10 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8082 GCS PCB**

Analytical Method: EPA 8082 Preparation Method: EPA 3546

|                         |          |  |     |   |                |                |            |  |
|-------------------------|----------|--|-----|---|----------------|----------------|------------|--|
| PCB-1016 (Aroclor 1016) | ND ug/kg |  | 106 | 1 | 06/27/14 12:25 | 07/01/14 18:24 | 12674-11-2 |  |
| PCB-1221 (Aroclor 1221) | ND ug/kg |  | 106 | 1 | 06/27/14 12:25 | 07/01/14 18:24 | 11104-28-2 |  |
| PCB-1232 (Aroclor 1232) | ND ug/kg |  | 106 | 1 | 06/27/14 12:25 | 07/01/14 18:24 | 11141-16-5 |  |
| PCB-1242 (Aroclor 1242) | ND ug/kg |  | 106 | 1 | 06/27/14 12:25 | 07/01/14 18:24 | 53469-21-9 |  |
| PCB-1248 (Aroclor 1248) | ND ug/kg |  | 106 | 1 | 06/27/14 12:25 | 07/01/14 18:24 | 12672-29-6 |  |
| PCB-1254 (Aroclor 1254) | ND ug/kg |  | 106 | 1 | 06/27/14 12:25 | 07/01/14 18:24 | 11097-69-1 |  |
| PCB-1260 (Aroclor 1260) | ND ug/kg |  | 106 | 1 | 06/27/14 12:25 | 07/01/14 18:24 | 11096-82-5 |  |

**Surrogates**

|                          |       |  |        |   |                |                |          |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 85 %. |  | 30-106 | 1 | 06/27/14 12:25 | 07/01/14 18:24 | 877-09-8 |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010 Preparation Method: EPA 3050

|          |            |  |      |   |                |                |           |  |
|----------|------------|--|------|---|----------------|----------------|-----------|--|
| Antimony | ND mg/kg   |  | 0.95 | 1 | 06/26/14 09:35 | 06/27/14 11:46 | 7440-36-0 |  |
| Arsenic  | 3.4 mg/kg  |  | 0.95 | 1 | 06/26/14 09:35 | 06/27/14 11:46 | 7440-38-2 |  |
| Chromium | 7.3 mg/kg  |  | 0.95 | 1 | 06/26/14 09:35 | 06/27/14 11:46 | 7440-47-3 |  |
| Cobalt   | 3.2 mg/kg  |  | 0.95 | 1 | 06/26/14 09:35 | 06/27/14 11:46 | 7440-48-4 |  |
| Iron     | 8210 mg/kg |  | 47.5 | 1 | 06/26/14 09:35 | 06/27/14 11:46 | 7439-89-6 |  |
| Lead     | 7.5 mg/kg  |  | 0.95 | 1 | 06/26/14 09:35 | 06/27/14 11:46 | 7439-92-1 |  |
| Selenium | ND mg/kg   |  | 0.95 | 1 | 06/26/14 09:35 | 06/27/14 11:46 | 7782-49-2 |  |
| Thallium | 1.7 mg/kg  |  | 0.95 | 1 | 06/26/14 09:35 | 06/27/14 11:46 | 7440-28-0 |  |

**8270 MSSV SHORT LIST MICROWAVE** Analytical Method: EPA 8270 Preparation Method: EPA 3546

|                                |          |  |     |   |                |                |           |  |
|--------------------------------|----------|--|-----|---|----------------|----------------|-----------|--|
| Acenaphthene                   | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 83-32-9   |  |
| Acenaphthylene                 | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 208-96-8  |  |
| Anthracene                     | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 120-12-7  |  |
| Benzo(a)anthracene             | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 56-55-3   |  |
| Benzo(a)pyrene                 | ND ug/kg |  | 180 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 50-32-8   |  |
| Benzo(b)fluoranthene           | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 205-99-2  |  |
| Benzo(g,h,i)perylene           | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 191-24-2  |  |
| Benzo(k)fluoranthene           | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 207-08-9  |  |
| Benzyl alcohol                 | ND ug/kg |  | 697 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 100-51-6  |  |
| 4-Bromophenylphenyl ether      | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 101-55-3  |  |
| Butylbenzylphthalate           | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 85-68-7   |  |
| 4-Chloro-3-methylphenol        | ND ug/kg |  | 697 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 59-50-7   |  |
| 4-Chloroaniline                | ND ug/kg |  | 697 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane     | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 111-91-1  |  |
| bis(2-Chloroethyl) ether       | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 111-44-4  |  |
| bis(2chloro1methylethyl) ether | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 108-60-1  |  |
| 2-Chloronaphthalene            | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 91-58-7   |  |
| 2-Chlorophenol                 | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether     | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 7005-72-3 |  |
| Chrysene                       | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 218-01-9  |  |
| Dibenz(a,h)anthracene          | ND ug/kg |  | 180 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 53-70-3   |  |
| Dibenzofuran                   | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine         | ND ug/kg |  | 697 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 91-94-1   |  |
| 2,4-Dichlorophenol             | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 120-83-2  |  |
| Diethylphthalate               | ND ug/kg |  | 349 | 1 | 06/26/14 13:03 | 06/27/14 19:05 | 84-66-2   |  |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

Sample: **TMW-10 (10-12)** Lab ID: **5099765004** Collected: 06/23/14 14:55 Received: 06/24/14 12:10 Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 697          | 1  | 06/26/14 13:03 | 06/27/14 19:05 |           |      |
| Naphthalene  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 349          | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 84 %    |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 86 %    |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 98 %    |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 1718-51-0 |      |
| Phenol-d5 (S)  | 86 %    |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 81 %    |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 76 %    |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 19:05 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |      |   |  |                |          |
|----------|----|-------|------|---|--|----------------|----------|
| Acetone  | ND | ug/kg | 92.1 | 1 |  | 07/03/14 22:50 | 67-64-1  |
| Acrolein | ND | ug/kg | 92.1 | 1 |  | 07/03/14 22:50 | 107-02-8 |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-10 (10-12)**      **Lab ID: 5099765004**      Collected: 06/23/14 14:55      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 92.1         | 1  |          | 07/03/14 22:50 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 23.0         | 1  |          | 07/03/14 22:50 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.2          | 1  |          | 07/03/14 22:50 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 92.1         | 1  |          | 07/03/14 22:50 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 92.1         | 1  |          | 07/03/14 22:50 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 92.1         | 1  |          | 07/03/14 22:50 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 92.1         | 1  |          | 07/03/14 22:50 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 22:50 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-10 (10-12)**      **Lab ID: 5099765004**      Collected: 06/23/14 14:55      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND           | ug/kg                            | 18.4         | 1  |          | 07/03/14 22:50 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 23.0         | 1  |          | 07/03/14 22:50 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 92.1         | 1  |          | 07/03/14 22:50 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 4.6          | 1  |          | 07/03/14 22:50 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 9.2          | 1  |          | 07/03/14 22:50 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 109 %.       |                                  | 85-118       | 1  |          | 07/03/14 22:50 | 1868-53-7 |      |
| Toluene-d8 (S)              | 94 %.        |                                  | 71-128       | 1  |          | 07/03/14 22:50 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 107 %.       |                                  | 56-144       | 1  |          | 07/03/14 22:50 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>6.3 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:16 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-2 (3-5)**      **Lab ID: 5099765005**      Collected: 06/23/14 13:15      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|---|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg   | 106          | 1  | 06/27/14 12:25 | 07/01/14 18:30 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg   | 106          | 1  | 06/27/14 12:25 | 07/01/14 18:30 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg   | 106          | 1  | 06/27/14 12:25 | 07/01/14 18:30 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg   | 106          | 1  | 06/27/14 12:25 | 07/01/14 18:30 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg   | 106          | 1  | 06/27/14 12:25 | 07/01/14 18:30 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg   | 106          | 1  | 06/27/14 12:25 | 07/01/14 18:30 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg   | 106          | 1  | 06/27/14 12:25 | 07/01/14 18:30 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |   |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 81 %.   |   | 30-106       | 1  | 06/27/14 12:25 | 07/01/14 18:30 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010    Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg   | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 11:48 | 7440-36-0  |      |
| Arsenic                               | 1.8     | mg/kg   | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 11:48 | 7440-38-2  |      |
| Chromium                              | 7.0     | mg/kg   | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 11:48 | 7440-47-3  |      |
| Cobalt                                | 2.3     | mg/kg   | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 11:48 | 7440-48-4  |      |
| Iron                                  | 6730    | mg/kg   | 49.0         | 1  | 06/26/14 09:35 | 06/27/14 11:48 | 7439-89-6  |      |
| Lead                                  | 5.8     | mg/kg   | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 11:48 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg   | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 11:48 | 7782-49-2  |      |
| Thallium                              | 6.3     | mg/kg   | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 11:48 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg   | 179          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg   | 696          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg   | 696          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg   | 696          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg   | 179          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg   | 696          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 120-83-2   |      |
| Diethylphthalate                      | ND      | ug/kg   | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 84-66-2    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-2 (3-5)**      **Lab ID: 5099765005**      Collected: 06/23/14 13:15      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 696          | 1  | 06/26/14 13:03 | 06/27/14 19:27 |           |      |
| Naphthalene  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1690         | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 348          | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 80 %    |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 81 %    |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 101 %   |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 1718-51-0 |      |
| Phenol-d5 (S)  | 84 %    |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 83 %    |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 89 %    |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 19:27 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |      |       |      |   |  |                |          |  |
|----------|------|-------|------|---|--|----------------|----------|--|
| Acetone  | 99.9 | ug/kg | 92.2 | 1 |  | 07/03/14 23:18 | 67-64-1  |  |
| Acrolein | ND   | ug/kg | 92.2 | 1 |  | 07/03/14 23:18 | 107-02-8 |  |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-2 (3-5)**      **Lab ID: 5099765005**      Collected: 06/23/14 13:15      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 92.2         | 1  |          | 07/03/14 23:18 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 23.1         | 1  |          | 07/03/14 23:18 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 9.2          | 1  |          | 07/03/14 23:18 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 92.2         | 1  |          | 07/03/14 23:18 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 92.2         | 1  |          | 07/03/14 23:18 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 92.2         | 1  |          | 07/03/14 23:18 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 92.2         | 1  |          | 07/03/14 23:18 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 4.6          | 1  |          | 07/03/14 23:18 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-2 (3-5)**      **Lab ID: 5099765005**      Collected: 06/23/14 13:15      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | 22.9    | ug/kg                            | 18.4         | 1  |          | 07/03/14 23:18 | 75-09-2   | C9   |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/kg                            | 23.1         | 1  |          | 07/03/14 23:18 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 103-65-1  |      |
| Styrene                     | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 127-18-4  |      |
| Toluene                     | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/kg                            | 92.2         | 1  |          | 07/03/14 23:18 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/kg                            | 4.6          | 1  |          | 07/03/14 23:18 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/kg                            | 9.2          | 1  |          | 07/03/14 23:18 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 111     | %                                | 85-118       | 1  |          | 07/03/14 23:18 | 1868-53-7 |      |
| Toluene-d8 (S)              | 93      | %                                | 71-128       | 1  |          | 07/03/14 23:18 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 105     | %                                | 56-144       | 1  |          | 07/03/14 23:18 | 460-00-4  |      |
| <b>Percent Moisture</b>     |         | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | 6.4     | %                                | 0.10         | 1  |          | 06/26/14 15:16 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-2 (13-15)**      **Lab ID: 5099765006**      Collected: 06/23/14 13:30      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b> Analytical Method: EPA 8082      Preparation Method: EPA 3546                   |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)   | ND      | ug/kg | 118          | 1  | 06/27/14 12:25 | 07/01/14 18:36 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)   | ND      | ug/kg | 118          | 1  | 06/27/14 12:25 | 07/01/14 18:36 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)   | ND      | ug/kg | 118          | 1  | 06/27/14 12:25 | 07/01/14 18:36 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)   | ND      | ug/kg | 118          | 1  | 06/27/14 12:25 | 07/01/14 18:36 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)   | ND      | ug/kg | 118          | 1  | 06/27/14 12:25 | 07/01/14 18:36 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)   | ND      | ug/kg | 118          | 1  | 06/27/14 12:25 | 07/01/14 18:36 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)   | ND      | ug/kg | 118          | 1  | 06/27/14 12:25 | 07/01/14 18:36 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)  | 72 %.   |       | 30-106       | 1  | 06/27/14 12:25 | 07/01/14 18:36 | 877-09-8   |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010      Preparation Method: EPA 3050                   |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:08 | 7440-36-0  |      |
| Arsenic   | 2.2     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:08 | 7440-38-2  |      |
| Chromium  | 3.0     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:08 | 7440-47-3  |      |
| Cobalt  | 1.5     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:08 | 7440-48-4  |      |
| Iron  | 4160    | mg/kg | 51.7         | 1  | 06/26/14 09:35 | 06/27/14 12:08 | 7439-89-6  |      |
| Lead  | 2.8     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:08 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:08 | 7782-49-2  |      |
| Thallium  | 2.2     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:08 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270      Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 201          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 778          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 100-51-6   |      |
| 4-Bromophenylphenyl ether   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 85-68-7    |      |
| 4-Chloro-3-methylphenol   | ND      | ug/kg | 778          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 778          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 111-91-1   |      |
| bis(2-Chloroethyl) ether  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 218-01-9   |      |
| Dibenz(a,h)anthracene   | ND      | ug/kg | 201          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine  | ND      | ug/kg | 778          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 120-83-2   |      |
| Diethylphthalate  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 84-66-2    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-2 (13-15)**      **Lab ID: 5099765006**      Collected: 06/23/14 13:30      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1890         | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1890         | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 778          | 1  | 06/26/14 13:03 | 06/27/14 19:50 |           |      |
| Naphthalene  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1890         | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1890         | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1890         | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1890         | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1890         | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 389          | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 82 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 86 %.   |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 102 %.  |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 1718-51-0 |      |
| Phenol-d5 (S)  | 86 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 84 %.   |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 89 %.   |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 19:50 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |     |   |  |                |          |  |
|----------|----|-------|-----|---|--|----------------|----------|--|
| Acetone  | ND | ug/kg | 117 | 1 |  | 07/03/14 23:45 | 67-64-1  |  |
| Acrolein | ND | ug/kg | 117 | 1 |  | 07/03/14 23:45 | 107-02-8 |  |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-2 (13-15)**      **Lab ID: 5099765006**      Collected: 06/23/14 13:30      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 117          | 1  |          | 07/03/14 23:45 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 29.3         | 1  |          | 07/03/14 23:45 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 11.7         | 1  |          | 07/03/14 23:45 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 117          | 1  |          | 07/03/14 23:45 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 117          | 1  |          | 07/03/14 23:45 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 117          | 1  |          | 07/03/14 23:45 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 117          | 1  |          | 07/03/14 23:45 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 5.9          | 1  |          | 07/03/14 23:45 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-2 (13-15)**      **Lab ID: 5099765006**      Collected: 06/23/14 13:30      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND            | ug/kg                            | 23.4         | 1  |          | 07/03/14 23:45 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 29.3         | 1  |          | 07/03/14 23:45 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 117          | 1  |          | 07/03/14 23:45 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.9          | 1  |          | 07/03/14 23:45 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 11.7         | 1  |          | 07/03/14 23:45 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 110 %.        |                                  | 85-118       | 1  |          | 07/03/14 23:45 | 1868-53-7 |      |
| Toluene-d8 (S)              | 93 %.         |                                  | 71-128       | 1  |          | 07/03/14 23:45 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 105 %.        |                                  | 56-144       | 1  |          | 07/03/14 23:45 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>16.3 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:16 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-1 (1-3)**      **Lab ID: 5099765007**      Collected: 06/23/14 12:35      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b> Analytical Method: EPA 8082      Preparation Method: EPA 3546                   |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)   | ND      | ug/kg | 104          | 1  | 06/27/14 12:25 | 07/02/14 22:57 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)   | ND      | ug/kg | 104          | 1  | 06/27/14 12:25 | 07/02/14 22:57 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)   | ND      | ug/kg | 104          | 1  | 06/27/14 12:25 | 07/02/14 22:57 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)   | ND      | ug/kg | 104          | 1  | 06/27/14 12:25 | 07/02/14 22:57 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)   | ND      | ug/kg | 104          | 1  | 06/27/14 12:25 | 07/02/14 22:57 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)   | ND      | ug/kg | 104          | 1  | 06/27/14 12:25 | 07/02/14 22:57 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)   | ND      | ug/kg | 104          | 1  | 06/27/14 12:25 | 07/02/14 22:57 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)  | 81 %.   |       | 30-106       | 1  | 06/27/14 12:25 | 07/02/14 22:57 | 877-09-8   |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010      Preparation Method: EPA 3050                   |         |       |              |    |                |                |            |      |
| Antimony  | 7.9     | mg/kg | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 12:11 | 7440-36-0  |      |
| Arsenic   | 48.4    | mg/kg | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 12:11 | 7440-38-2  |      |
| Chromium  | 45.1    | mg/kg | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 12:11 | 7440-47-3  |      |
| Cobalt  | 22.9    | mg/kg | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 12:11 | 7440-48-4  |      |
| Iron  | 253000  | mg/kg | 976          | 20 | 06/26/14 09:35 | 06/27/14 13:26 | 7439-89-6  |      |
| Lead  | 97.9    | mg/kg | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 12:11 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 19.5         | 20 | 06/26/14 09:35 | 06/27/14 13:26 | 7782-49-2  | D3   |
| Thallium  | 1.9     | mg/kg | 0.98         | 1  | 06/26/14 09:35 | 06/27/14 12:11 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270      Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 176          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 682          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 100-51-6   |      |
| 4-Bromophenylphenyl ether   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 85-68-7    |      |
| 4-Chloro-3-methylphenol   | ND      | ug/kg | 682          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 682          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 111-91-1   |      |
| bis(2-Chloroethyl) ether  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 218-01-9   |      |
| Dibenz(a,h)anthracene   | ND      | ug/kg | 176          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine  | ND      | ug/kg | 682          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 120-83-2   |      |
| Diethylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 84-66-2    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-1 (1-3)**      **Lab ID: 5099765007**      Collected: 06/23/14 12:35      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 682          | 1  | 06/26/14 13:03 | 06/27/14 20:12 |           |      |
| Naphthalene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 44 %    |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 51 %    |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 52 %    |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 1718-51-0 |      |
| Phenol-d5 (S)  | 50 %    |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 51 %    |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 43 %    |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 20:12 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |     |   |  |                |          |  |
|----------|----|-------|-----|---|--|----------------|----------|--|
| Acetone  | ND | ug/kg | 105 | 1 |  | 07/04/14 00:12 | 67-64-1  |  |
| Acrolein | ND | ug/kg | 105 | 1 |  | 07/04/14 00:12 | 107-02-8 |  |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-1 (1-3)**      **Lab ID: 5099765007**      Collected: 06/23/14 12:35      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results     | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|-------------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |             | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND          | ug/kg                       | 105          | 1  |          | 07/04/14 00:12 | 107-13-1   |      |
| Benzene                     | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 71-43-2    |      |
| Bromobenzene                | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 108-86-1   |      |
| Bromochloromethane          | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 74-97-5    |      |
| Bromodichloromethane        | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 75-27-4    |      |
| Bromoform                   | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 75-25-2    |      |
| Bromomethane                | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND          | ug/kg                       | 26.3         | 1  |          | 07/04/14 00:12 | 78-93-3    |      |
| n-Butylbenzene              | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 104-51-8   |      |
| sec-Butylbenzene            | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 135-98-8   |      |
| tert-Butylbenzene           | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 98-06-6    |      |
| Carbon disulfide            | ND          | ug/kg                       | 10.5         | 1  |          | 07/04/14 00:12 | 75-15-0    |      |
| Carbon tetrachloride        | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 56-23-5    |      |
| Chlorobenzene               | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 108-90-7   |      |
| Chloroethane                | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 75-00-3    |      |
| Chloroform                  | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 67-66-3    |      |
| Chloromethane               | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 74-87-3    |      |
| 2-Chlorotoluene             | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 95-49-8    |      |
| 4-Chlorotoluene             | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 106-43-4   |      |
| Dibromochloromethane        | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 106-93-4   |      |
| Dibromomethane              | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND          | ug/kg                       | 105          | 1  |          | 07/04/14 00:12 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 10061-02-6 |      |
| Ethylbenzene                | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 100-41-4   |      |
| Ethyl methacrylate          | ND          | ug/kg                       | 105          | 1  |          | 07/04/14 00:12 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 87-68-3    |      |
| n-Hexane                    | <b>24.0</b> | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 110-54-3   | N2   |
| 2-Hexanone                  | ND          | ug/kg                       | 105          | 1  |          | 07/04/14 00:12 | 591-78-6   |      |
| Iodomethane                 | ND          | ug/kg                       | 105          | 1  |          | 07/04/14 00:12 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 98-82-8    |      |
| p-Isopropyltoluene          | ND          | ug/kg                       | 5.3          | 1  |          | 07/04/14 00:12 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-1 (1-3)**      **Lab ID: 5099765007**      Collected: 06/23/14 12:35      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results      | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|--------------|--|--------------|----|----------------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>             |              | Analytical Method: EPA 8260                                |              |    |                |                |            |      |
| Methylene Chloride                    | ND           | ug/kg  | 21.0         | 1  |                | 07/04/14 00:12 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)           | ND           | ug/kg  | 26.3         | 1  |                | 07/04/14 00:12 | 108-10-1   |      |
| Methyl-tert-butyl ether               | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 1634-04-4  |      |
| Naphthalene                           | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 91-20-3    |      |
| n-Propylbenzene                       | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 103-65-1   |      |
| Styrene                               | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane             | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane             | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 79-34-5    |      |
| Tetrachloroethene                     | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 127-18-4   |      |
| Toluene                               | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 120-82-1   |      |
| 1,1,1-Trichloroethane                 | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 71-55-6    |      |
| 1,1,2-Trichloroethane                 | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 79-00-5    |      |
| Trichloroethene                       | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 79-01-6    |      |
| Trichlorofluoromethane                | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 75-69-4    |      |
| 1,2,3-Trichloropropane                | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 96-18-4    |      |
| 1,2,4-Trimethylbenzene                | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene                | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 108-67-8   |      |
| Vinyl acetate                         | ND           | ug/kg  | 105          | 1  |                | 07/04/14 00:12 | 108-05-4   |      |
| Vinyl chloride                        | ND           | ug/kg  | 5.3          | 1  |                | 07/04/14 00:12 | 75-01-4    |      |
| Xylene (Total)                        | ND           | ug/kg  | 10.5         | 1  |                | 07/04/14 00:12 | 1330-20-7  |      |
| <b>Surrogates</b>                     |              |  |              |    |                |                |            |      |
| Dibromofluoromethane (S)              | 97 %.        |  | 85-118       | 1  |                | 07/04/14 00:12 | 1868-53-7  |      |
| Toluene-d8 (S)                        | 96 %.        |  | 71-128       | 1  |                | 07/04/14 00:12 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)              | 104 %.       |  | 56-144       | 1  |                | 07/04/14 00:12 | 460-00-4   |      |
| <b>Percent Moisture</b>               |              | Analytical Method: ASTM D2974-87                           |              |    |                |                |            |      |
| Percent Moisture                      | <b>4.2 %</b> |  | 0.10         | 1  |                | 06/26/14 15:16 |            |      |
| <b>7196 Chromium, Hexavalent</b>      |              | Analytical Method: EPA 7196A Preparation Method: EPA 3060A |              |    |                |                |            |      |
| Chromium, Hexavalent                  | ND           | mg/kg  | 2.0          | 1  | 07/16/14 06:49 | 07/17/14 09:31 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b> |              | Analytical Method: Trivalent Chromium Calculation          |              |    |                |                |            |      |
| Chromium, Trivalent                   | <b>45.1</b>  | mg/kg  | 1.0          | 1  |                | 07/17/14 13:37 | 16065-83-1 |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-1 (18-20)**      **Lab ID: 5099765008**      Collected: 06/23/14 12:50      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8082 GCS PCB**

Analytical Method: EPA 8082      Preparation Method: EPA 3546

|                         |          |  |     |   |                |                |            |  |
|-------------------------|----------|--|-----|---|----------------|----------------|------------|--|
| PCB-1016 (Aroclor 1016) | ND ug/kg |  | 114 | 1 | 06/27/14 12:25 | 07/01/14 18:47 | 12674-11-2 |  |
| PCB-1221 (Aroclor 1221) | ND ug/kg |  | 114 | 1 | 06/27/14 12:25 | 07/01/14 18:47 | 11104-28-2 |  |
| PCB-1232 (Aroclor 1232) | ND ug/kg |  | 114 | 1 | 06/27/14 12:25 | 07/01/14 18:47 | 11141-16-5 |  |
| PCB-1242 (Aroclor 1242) | ND ug/kg |  | 114 | 1 | 06/27/14 12:25 | 07/01/14 18:47 | 53469-21-9 |  |
| PCB-1248 (Aroclor 1248) | ND ug/kg |  | 114 | 1 | 06/27/14 12:25 | 07/01/14 18:47 | 12672-29-6 |  |
| PCB-1254 (Aroclor 1254) | ND ug/kg |  | 114 | 1 | 06/27/14 12:25 | 07/01/14 18:47 | 11097-69-1 |  |
| PCB-1260 (Aroclor 1260) | ND ug/kg |  | 114 | 1 | 06/27/14 12:25 | 07/01/14 18:47 | 11096-82-5 |  |

**Surrogates**

|                          |       |  |        |   |                |                |          |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 75 %. |  | 30-106 | 1 | 06/27/14 12:25 | 07/01/14 18:47 | 877-09-8 |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010      Preparation Method: EPA 3050

|          |            |  |      |   |                |                |           |  |
|----------|------------|--|------|---|----------------|----------------|-----------|--|
| Antimony | ND mg/kg   |  | 1.1  | 1 | 06/26/14 09:35 | 06/27/14 12:13 | 7440-36-0 |  |
| Arsenic  | 1.5 mg/kg  |  | 1.1  | 1 | 06/26/14 09:35 | 06/27/14 12:13 | 7440-38-2 |  |
| Chromium | 2.8 mg/kg  |  | 1.1  | 1 | 06/26/14 09:35 | 06/27/14 12:13 | 7440-47-3 |  |
| Cobalt   | 1.5 mg/kg  |  | 1.1  | 1 | 06/26/14 09:35 | 06/27/14 12:13 | 7440-48-4 |  |
| Iron     | 3140 mg/kg |  | 55.7 | 1 | 06/26/14 09:35 | 06/27/14 12:13 | 7439-89-6 |  |
| Lead     | 2.1 mg/kg  |  | 1.1  | 1 | 06/26/14 09:35 | 06/27/14 12:13 | 7439-92-1 |  |
| Selenium | ND mg/kg   |  | 1.1  | 1 | 06/26/14 09:35 | 06/27/14 12:13 | 7782-49-2 |  |
| Thallium | 1.8 mg/kg  |  | 1.1  | 1 | 06/26/14 09:35 | 06/27/14 12:13 | 7440-28-0 |  |

**8270 MSSV SHORT LIST MICROWAVE**      Analytical Method: EPA 8270      Preparation Method: EPA 3546

|                                |          |  |     |   |                |                |           |  |
|--------------------------------|----------|--|-----|---|----------------|----------------|-----------|--|
| Acenaphthene                   | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 83-32-9   |  |
| Acenaphthylene                 | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 208-96-8  |  |
| Anthracene                     | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 120-12-7  |  |
| Benzo(a)anthracene             | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 56-55-3   |  |
| Benzo(a)pyrene                 | ND ug/kg |  | 194 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 50-32-8   |  |
| Benzo(b)fluoranthene           | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 205-99-2  |  |
| Benzo(g,h,i)perylene           | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 191-24-2  |  |
| Benzo(k)fluoranthene           | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 207-08-9  |  |
| Benzyl alcohol                 | ND ug/kg |  | 755 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 100-51-6  |  |
| 4-Bromophenylphenyl ether      | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 101-55-3  |  |
| Butylbenzylphthalate           | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 85-68-7   |  |
| 4-Chloro-3-methylphenol        | ND ug/kg |  | 755 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 59-50-7   |  |
| 4-Chloroaniline                | ND ug/kg |  | 755 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane     | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 111-91-1  |  |
| bis(2-Chloroethyl) ether       | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 111-44-4  |  |
| bis(2chloro1methylethyl) ether | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 108-60-1  |  |
| 2-Chloronaphthalene            | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 91-58-7   |  |
| 2-Chlorophenol                 | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether     | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 7005-72-3 |  |
| Chrysene                       | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 218-01-9  |  |
| Dibenz(a,h)anthracene          | ND ug/kg |  | 194 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 53-70-3   |  |
| Dibenzofuran                   | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine         | ND ug/kg |  | 755 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 91-94-1   |  |
| 2,4-Dichlorophenol             | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 120-83-2  |  |
| Diethylphthalate               | ND ug/kg |  | 377 | 1 | 06/26/14 13:03 | 06/27/14 20:35 | 84-66-2   |  |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-1 (18-20)**      **Lab ID: 5099765008**      Collected: 06/23/14 12:50      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1830         | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1830         | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 755          | 1  | 06/26/14 13:03 | 06/27/14 20:35 |           |      |
| Naphthalene  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1830         | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1830         | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1830         | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1830         | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1830         | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 377          | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 73 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 77 %.   |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 89 %.   |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 1718-51-0 |      |
| Phenol-d5 (S)  | 75 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 73 %.   |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 73 %.   |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 20:35 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |     |   |  |                |          |  |
|----------|----|-------|-----|---|--|----------------|----------|--|
| Acetone  | ND | ug/kg | 101 | 1 |  | 07/04/14 00:39 | 67-64-1  |  |
| Acrolein | ND | ug/kg | 101 | 1 |  | 07/04/14 00:39 | 107-02-8 |  |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-1 (18-20)**      **Lab ID: 5099765008**      Collected: 06/23/14 12:50      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 101          | 1  |          | 07/04/14 00:39 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 25.3         | 1  |          | 07/04/14 00:39 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.1         | 1  |          | 07/04/14 00:39 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 101          | 1  |          | 07/04/14 00:39 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 101          | 1  |          | 07/04/14 00:39 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 101          | 1  |          | 07/04/14 00:39 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 101          | 1  |          | 07/04/14 00:39 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 5.1          | 1  |          | 07/04/14 00:39 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-1 (18-20)**      **Lab ID: 5099765008**      Collected: 06/23/14 12:50      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND            | ug/kg                            | 20.2         | 1  |          | 07/04/14 00:39 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 25.3         | 1  |          | 07/04/14 00:39 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 101          | 1  |          | 07/04/14 00:39 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.1          | 1  |          | 07/04/14 00:39 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 10.1         | 1  |          | 07/04/14 00:39 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 112 %.        |                                  | 85-118       | 1  |          | 07/04/14 00:39 | 1868-53-7 |      |
| Toluene-d8 (S)              | 94 %.         |                                  | 71-128       | 1  |          | 07/04/14 00:39 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 106 %.        |                                  | 56-144       | 1  |          | 07/04/14 00:39 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>13.1 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:16 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-1 (1-3)**      **Lab ID: 5099765009**      Collected: 06/23/14 11:45      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters  | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b> Analytical Method: EPA 8082      Preparation Method: EPA 3546                   |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)   | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 18:53 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)   | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 18:53 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)   | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 18:53 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)   | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 18:53 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)   | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 18:53 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)   | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 18:53 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)   | ND      | ug/kg | 103          | 1  | 06/27/14 12:25 | 07/01/14 18:53 | 11096-82-5 |      |
| <b>Surrogates</b>   |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)  | 79 %.   |       | 30-106       | 1  | 06/27/14 12:25 | 07/01/14 18:53 | 877-09-8   |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010      Preparation Method: EPA 3050                   |         |       |              |    |                |                |            |      |
| Antimony  | ND      | mg/kg | 0.87         | 1  | 06/26/14 09:35 | 06/27/14 12:15 | 7440-36-0  |      |
| Arsenic   | 2.3     | mg/kg | 0.87         | 1  | 06/26/14 09:35 | 06/27/14 12:15 | 7440-38-2  |      |
| Chromium  | 4.7     | mg/kg | 0.87         | 1  | 06/26/14 09:35 | 06/27/14 12:15 | 7440-47-3  |      |
| Cobalt  | 2.2     | mg/kg | 0.87         | 1  | 06/26/14 09:35 | 06/27/14 12:15 | 7440-48-4  |      |
| Iron  | 10100   | mg/kg | 43.7         | 1  | 06/26/14 09:35 | 06/27/14 12:15 | 7439-89-6  |      |
| Lead  | 3.8     | mg/kg | 0.87         | 1  | 06/26/14 09:35 | 06/27/14 12:15 | 7439-92-1  |      |
| Selenium  | ND      | mg/kg | 0.87         | 1  | 06/26/14 09:35 | 06/27/14 12:15 | 7782-49-2  |      |
| Thallium  | 1.9     | mg/kg | 0.87         | 1  | 06/26/14 09:35 | 06/27/14 12:15 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270      Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 83-32-9    |      |
| Acenaphthylene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 208-96-8   |      |
| Anthracene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 120-12-7   |      |
| Benzo(a)anthracene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 56-55-3    |      |
| Benzo(a)pyrene  | ND      | ug/kg | 176          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 50-32-8    |      |
| Benzo(b)fluoranthene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 205-99-2   |      |
| Benzo(g,h,i)perylene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 191-24-2   |      |
| Benzo(k)fluoranthene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 207-08-9   |      |
| Benzyl alcohol  | ND      | ug/kg | 683          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 100-51-6   |      |
| 4-Bromophenylphenyl ether   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 101-55-3   |      |
| Butylbenzylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 85-68-7    |      |
| 4-Chloro-3-methylphenol   | ND      | ug/kg | 683          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 59-50-7    |      |
| 4-Chloroaniline   | ND      | ug/kg | 683          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 111-91-1   |      |
| bis(2-Chloroethyl) ether  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 108-60-1   |      |
| 2-Chloronaphthalene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 91-58-7    |      |
| 2-Chlorophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 7005-72-3  |      |
| Chrysene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 218-01-9   |      |
| Dibenz(a,h)anthracene   | ND      | ug/kg | 176          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 53-70-3    |      |
| Dibenzofuran  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine  | ND      | ug/kg | 683          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 91-94-1    |      |
| 2,4-Dichlorophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 120-83-2   |      |
| Diethylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 84-66-2    |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: TMW-1 (1-3)**      **Lab ID: 5099765009**      Collected: 06/23/14 11:45      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1660         | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1660         | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 683          | 1  | 06/26/14 13:03 | 06/27/14 20:57 |           |      |
| Naphthalene  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1660         | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1660         | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1660         | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1660         | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1660         | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 341          | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 72 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 76 %.   |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 95 %.   |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 1718-51-0 |      |
| Phenol-d5 (S)  | 77 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 75 %.   |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 80 %.   |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 20:57 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |     |   |                |          |
|----------|----|-------|-----|---|----------------|----------|
| Acetone  | ND | ug/kg | 105 | 1 | 07/04/14 01:06 | 67-64-1  |
| Acrolein | ND | ug/kg | 105 | 1 | 07/04/14 01:06 | 107-02-8 |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: TMW-1 (1-3)**      **Lab ID: 5099765009**      Collected: 06/23/14 11:45      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 01:06 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 26.1         | 1  |          | 07/04/14 01:06 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.5         | 1  |          | 07/04/14 01:06 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 01:06 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 01:06 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 01:06 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 01:06 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 01:06 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: TMW-1 (1-3)**      **Lab ID: 5099765009**      Collected: 06/23/14 11:45      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND           | ug/kg                            | 20.9         | 1  |          | 07/04/14 01:06 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 26.1         | 1  |          | 07/04/14 01:06 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 105          | 1  |          | 07/04/14 01:06 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 01:06 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 10.5         | 1  |          | 07/04/14 01:06 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 111 %.       |                                  | 85-118       | 1  |          | 07/04/14 01:06 | 1868-53-7 |      |
| Toluene-d8 (S)              | 94 %.        |                                  | 71-128       | 1  |          | 07/04/14 01:06 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 104 %.       |                                  | 56-144       | 1  |          | 07/04/14 01:06 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>4.0 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:16 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: TMW-1 (11-13)**      **Lab ID: 5099765010**      Collected: 06/23/14 12:00      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                  | ND      | ug/kg | 111          | 1  | 06/27/14 12:25 | 07/01/14 18:59 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                  | ND      | ug/kg | 111          | 1  | 06/27/14 12:25 | 07/01/14 18:59 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                  | ND      | ug/kg | 111          | 1  | 06/27/14 12:25 | 07/01/14 18:59 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                  | ND      | ug/kg | 111          | 1  | 06/27/14 12:25 | 07/01/14 18:59 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                  | ND      | ug/kg | 111          | 1  | 06/27/14 12:25 | 07/01/14 18:59 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                  | ND      | ug/kg | 111          | 1  | 06/27/14 12:25 | 07/01/14 18:59 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                  | ND      | ug/kg | 111          | 1  | 06/27/14 12:25 | 07/01/14 18:59 | 11096-82-5 |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                 | 80 %.   |       | 30-106       | 1  | 06/27/14 12:25 | 07/01/14 18:59 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                      |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 |         |       |              |    |                |                |            |      |
| Antimony   | ND      | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:17 | 7440-36-0  |      |
| Arsenic  | 2.8     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:17 | 7440-38-2  |      |
| Chromium   | 4.5     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:17 | 7440-47-3  |      |
| Cobalt   | 1.2     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:17 | 7440-48-4  |      |
| Iron   | 5410    | mg/kg | 50.3         | 1  | 06/26/14 09:35 | 06/27/14 12:17 | 7439-89-6  |      |
| Lead   | 2.9     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:17 | 7439-92-1  |      |
| Selenium   | ND      | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:17 | 7782-49-2  |      |
| Thallium   | 2.8     | mg/kg | 1.0          | 1  | 06/26/14 09:35 | 06/27/14 12:17 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b>                    |         |       |              |    |                |                |            |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |            |      |
| Acenaphthene   | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 83-32-9    |      |
| Acenaphthylene   | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 208-96-8   |      |
| Anthracene   | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 120-12-7   |      |
| Benzo(a)anthracene                                       | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 56-55-3    |      |
| Benzo(a)pyrene   | ND      | ug/kg | 189          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 50-32-8    |      |
| Benzo(b)fluoranthene                                     | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 205-99-2   |      |
| Benzo(g,h,i)perylene                                     | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 191-24-2   |      |
| Benzo(k)fluoranthene                                     | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 207-08-9   |      |
| Benzyl alcohol   | ND      | ug/kg | 734          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 100-51-6   |      |
| 4-Bromophenylphenyl ether                                | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 101-55-3   |      |
| Butylbenzylphthalate                                     | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 85-68-7    |      |
| 4-Chloro-3-methylphenol                                  | ND      | ug/kg | 734          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 59-50-7    |      |
| 4-Chloroaniline  | ND      | ug/kg | 734          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane                               | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 111-91-1   |      |
| bis(2-Chloroethyl) ether                                 | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether                           | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 108-60-1   |      |
| 2-Chloronaphthalene                                      | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 91-58-7    |      |
| 2-Chlorophenol   | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether                               | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 7005-72-3  |      |
| Chrysene   | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 218-01-9   |      |
| Dibenz(a,h)anthracene                                    | ND      | ug/kg | 189          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 53-70-3    |      |
| Dibenzofuran   | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                                   | ND      | ug/kg | 734          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 91-94-1    |      |
| 2,4-Dichlorophenol                                       | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 120-83-2   |      |
| Diethylphthalate   | ND      | ug/kg | 367          | 1  | 06/26/14 13:03 | 06/27/14 21:20 | 84-66-2    |      |

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ANALYTICAL RESULTS

Project: Sibley-Accucast
Pace Project No.: 5099765

Sample: TMW-1 (11-13) Lab ID: 5099765010 Collected: 06/23/14 12:00 Received: 06/24/14 12:10 Matrix: Solid

Results reported on a "dry-weight" basis

Table with 9 columns: Parameters, Results, Units, Report Limit, DF, Prepared, Analyzed, CAS No., Qual. Contains lists of chemical compounds and their analysis results under sections 8270 MSSV and 8260 MSV.

8260 MSV 5035A VOA

Analytical Method: EPA 8260

Table with 9 columns: Parameters, Results, Units, Report Limit, DF, Prepared, Analyzed, CAS No., Qual. Lists Acetone and Acrolein.

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-1 (11-13)      Lab ID: 5099765010      Collected: 06/23/14 12:00      Received: 06/24/14 12:10      Matrix: Solid**

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 107          | 1  |          | 07/04/14 01:34 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 26.7         | 1  |          | 07/04/14 01:34 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.7         | 1  |          | 07/04/14 01:34 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 107          | 1  |          | 07/04/14 01:34 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 107          | 1  |          | 07/04/14 01:34 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 107          | 1  |          | 07/04/14 01:34 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 107          | 1  |          | 07/04/14 01:34 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 01:34 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-1 (11-13)**      **Lab ID: 5099765010**      Collected: 06/23/14 12:00      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND            | ug/kg                            | 21.4         | 1  |          | 07/04/14 01:34 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 26.7         | 1  |          | 07/04/14 01:34 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 107          | 1  |          | 07/04/14 01:34 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 5.3          | 1  |          | 07/04/14 01:34 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 10.7         | 1  |          | 07/04/14 01:34 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 110 %.        |                                  | 85-118       | 1  |          | 07/04/14 01:34 | 1868-53-7 |      |
| Toluene-d8 (S)              | 94 %.         |                                  | 71-128       | 1  |          | 07/04/14 01:34 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 104 %.        |                                  | 56-144       | 1  |          | 07/04/14 01:34 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>11.0 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:16 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: TMW-8 (1-3)**      **Lab ID: 5099765011**      Collected: 06/23/14 10:40      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8082 GCS PCB**

Analytical Method: EPA 8082      Preparation Method: EPA 3546

|                         |          |  |     |   |                |                |            |  |
|-------------------------|----------|--|-----|---|----------------|----------------|------------|--|
| PCB-1016 (Aroclor 1016) | ND ug/kg |  | 113 | 1 | 07/07/14 09:50 | 07/08/14 16:45 | 12674-11-2 |  |
| PCB-1221 (Aroclor 1221) | ND ug/kg |  | 113 | 1 | 07/07/14 09:50 | 07/08/14 16:45 | 11104-28-2 |  |
| PCB-1232 (Aroclor 1232) | ND ug/kg |  | 113 | 1 | 07/07/14 09:50 | 07/08/14 16:45 | 11141-16-5 |  |
| PCB-1242 (Aroclor 1242) | ND ug/kg |  | 113 | 1 | 07/07/14 09:50 | 07/08/14 16:45 | 53469-21-9 |  |
| PCB-1248 (Aroclor 1248) | ND ug/kg |  | 113 | 1 | 07/07/14 09:50 | 07/08/14 16:45 | 12672-29-6 |  |
| PCB-1254 (Aroclor 1254) | ND ug/kg |  | 113 | 1 | 07/07/14 09:50 | 07/08/14 16:45 | 11097-69-1 |  |
| PCB-1260 (Aroclor 1260) | ND ug/kg |  | 113 | 1 | 07/07/14 09:50 | 07/08/14 16:45 | 11096-82-5 |  |

**Surrogates**

|                          |       |  |        |   |                |                |          |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 64 %. |  | 30-106 | 1 | 07/07/14 09:50 | 07/08/14 16:45 | 877-09-8 |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010      Preparation Method: EPA 3050

|          |             |  |     |    |                |                |           |  |
|----------|-------------|--|-----|----|----------------|----------------|-----------|--|
| Antimony | 1.2 mg/kg   |  | 1.1 | 1  | 06/26/14 09:35 | 06/27/14 12:19 | 7440-36-0 |  |
| Arsenic  | 24.2 mg/kg  |  | 1.1 | 1  | 06/26/14 09:35 | 06/27/14 12:19 | 7440-38-2 |  |
| Chromium | 28.7 mg/kg  |  | 1.1 | 1  | 06/26/14 09:35 | 06/27/14 12:19 | 7440-47-3 |  |
| Cobalt   | 7.9 mg/kg   |  | 1.1 | 1  | 06/26/14 09:35 | 06/27/14 12:19 | 7440-48-4 |  |
| Iron     | 90000 mg/kg |  | 545 | 10 | 06/26/14 09:35 | 06/27/14 13:28 | 7439-89-6 |  |
| Lead     | 21.8 mg/kg  |  | 1.1 | 1  | 06/26/14 09:35 | 06/27/14 12:19 | 7439-92-1 |  |
| Selenium | ND mg/kg    |  | 1.1 | 1  | 06/26/14 09:35 | 06/27/14 12:19 | 7782-49-2 |  |
| Thallium | 3.1 mg/kg   |  | 1.1 | 1  | 06/26/14 09:35 | 06/27/14 12:19 | 7440-28-0 |  |

**8270 MSSV SHORT LIST MICROWAVE**      Analytical Method: EPA 8270      Preparation Method: EPA 3546

|                                |          |  |      |   |                |                |           |  |
|--------------------------------|----------|--|------|---|----------------|----------------|-----------|--|
| Acenaphthene                   | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 83-32-9   |  |
| Acenaphthylene                 | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 208-96-8  |  |
| Anthracene                     | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 120-12-7  |  |
| Benzo(a)anthracene             | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 56-55-3   |  |
| Benzo(a)pyrene                 | ND ug/kg |  | 961  | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 50-32-8   |  |
| Benzo(b)fluoranthene           | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 205-99-2  |  |
| Benzo(g,h,i)perylene           | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 191-24-2  |  |
| Benzo(k)fluoranthene           | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 207-08-9  |  |
| Benzyl alcohol                 | ND ug/kg |  | 3730 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 100-51-6  |  |
| 4-Bromophenylphenyl ether      | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 101-55-3  |  |
| Butylbenzylphthalate           | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 85-68-7   |  |
| 4-Chloro-3-methylphenol        | ND ug/kg |  | 3730 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 59-50-7   |  |
| 4-Chloroaniline                | ND ug/kg |  | 3730 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane     | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 111-91-1  |  |
| bis(2-Chloroethyl) ether       | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 111-44-4  |  |
| bis(2chloro1methylethyl) ether | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 108-60-1  |  |
| 2-Chloronaphthalene            | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 91-58-7   |  |
| 2-Chlorophenol                 | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether     | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 7005-72-3 |  |
| Chrysene                       | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 218-01-9  |  |
| Dibenz(a,h)anthracene          | ND ug/kg |  | 961  | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 53-70-3   |  |
| Dibenzofuran                   | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine         | ND ug/kg |  | 3730 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 91-94-1   |  |
| 2,4-Dichlorophenol             | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 120-83-2  |  |
| Diethylphthalate               | ND ug/kg |  | 1870 | 5 | 07/01/14 11:55 | 07/01/14 20:29 | 84-66-2   |  |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: TMW-8 (1-3)**      **Lab ID: 5099765011**      Collected: 06/23/14 10:40      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 9040         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 9040         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 3730         | 5  | 07/01/14 11:55 | 07/01/14 20:29 |           |      |
| Naphthalene  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 9040         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 9040         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 9040         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 9040         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 9040         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 108-95-2  | 1d   |
| Pyrene   | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 1870         | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 55 %.   |       | 28-101       | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 55 %.   |       | 31-94        | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 66 %.   |       | 26-110       | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 1718-51-0 |      |
| Phenol-d5 (S)  | 55 %.   |       | 28-101       | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 53 %.   |       | 24-104       | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 46 %.   |       | 16-122       | 5  | 07/01/14 11:55 | 07/01/14 20:29 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |     |   |  |                |          |  |
|----------|----|-------|-----|---|--|----------------|----------|--|
| Acetone  | ND | ug/kg | 207 | 1 |  | 07/04/14 02:01 | 67-64-1  |  |
| Acrolein | ND | ug/kg | 207 | 1 |  | 07/04/14 02:01 | 107-02-8 |  |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-8 (1-3)**      **Lab ID: 5099765011**      Collected: 06/23/14 10:40      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 207          | 1  |          | 07/04/14 02:01 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 51.8         | 1  |          | 07/04/14 02:01 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 20.7         | 1  |          | 07/04/14 02:01 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 207          | 1  |          | 07/04/14 02:01 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 207          | 1  |          | 07/04/14 02:01 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 207          | 1  |          | 07/04/14 02:01 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 207          | 1  |          | 07/04/14 02:01 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 02:01 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: TMW-8 (1-3)**      **Lab ID: 5099765011**      Collected: 06/23/14 10:40      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results       | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------------|--|--------------|----|----------------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>             |               | Analytical Method: EPA 8260                                |              |    |                |                |            |      |
| Methylene Chloride                    | ND            | ug/kg  | 41.5         | 1  |                | 07/04/14 02:01 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)           | ND            | ug/kg  | 51.8         | 1  |                | 07/04/14 02:01 | 108-10-1   |      |
| Methyl-tert-butyl ether               | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 1634-04-4  |      |
| Naphthalene                           | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 91-20-3    |      |
| n-Propylbenzene                       | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 103-65-1   |      |
| Styrene                               | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane             | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane             | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 79-34-5    |      |
| Tetrachloroethene                     | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 127-18-4   |      |
| Toluene                               | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 120-82-1   |      |
| 1,1,1-Trichloroethane                 | <b>248</b>    | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 71-55-6    |      |
| 1,1,2-Trichloroethane                 | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 79-00-5    |      |
| Trichloroethene                       | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 79-01-6    |      |
| Trichlorofluoromethane                | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 75-69-4    |      |
| 1,2,3-Trichloropropane                | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 96-18-4    |      |
| 1,2,4-Trimethylbenzene                | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene                | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 108-67-8   |      |
| Vinyl acetate                         | ND            | ug/kg  | 207          | 1  |                | 07/04/14 02:01 | 108-05-4   |      |
| Vinyl chloride                        | ND            | ug/kg  | 10.4         | 1  |                | 07/04/14 02:01 | 75-01-4    |      |
| Xylene (Total)                        | ND            | ug/kg  | 20.7         | 1  |                | 07/04/14 02:01 | 1330-20-7  |      |
| <b>Surrogates</b>                     |               |  |              |    |                |                |            |      |
| Dibromofluoromethane (S)              | 117 %.        |  | 85-118       | 1  |                | 07/04/14 02:01 | 1868-53-7  |      |
| Toluene-d8 (S)                        | 97 %.         |  | 71-128       | 1  |                | 07/04/14 02:01 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)              | 98 %.         |  | 56-144       | 1  |                | 07/04/14 02:01 | 460-00-4   |      |
| <b>Percent Moisture</b>               |               | Analytical Method: ASTM D2974-87                           |              |    |                |                |            |      |
| Percent Moisture                      | <b>12.7</b> % |  | 0.10         | 1  |                | 06/26/14 15:16 |            |      |
| <b>7196 Chromium, Hexavalent</b>      |               | Analytical Method: EPA 7196A Preparation Method: EPA 3060A |              |    |                |                |            |      |
| Chromium, Hexavalent                  | ND            | mg/kg  | 2.3          | 1  | 07/16/14 06:49 | 07/17/14 09:33 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b> |               | Analytical Method: Trivalent Chromium Calculation          |              |    |                |                |            |      |
| Chromium, Trivalent                   | <b>28.7</b>   | mg/kg  | 1.0          | 1  |                | 07/17/14 13:37 | 16065-83-1 |      |

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### ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-8 (10-12)**      **Lab ID: 5099765012**      Collected: 06/23/14 11:00      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8082 GCS PCB**

Analytical Method: EPA 8082      Preparation Method: EPA 3546

|                         |          |  |     |   |                |                |            |  |
|-------------------------|----------|--|-----|---|----------------|----------------|------------|--|
| PCB-1016 (Aroclor 1016) | ND ug/kg |  | 102 | 1 | 06/27/14 12:25 | 07/01/14 19:11 | 12674-11-2 |  |
| PCB-1221 (Aroclor 1221) | ND ug/kg |  | 102 | 1 | 06/27/14 12:25 | 07/01/14 19:11 | 11104-28-2 |  |
| PCB-1232 (Aroclor 1232) | ND ug/kg |  | 102 | 1 | 06/27/14 12:25 | 07/01/14 19:11 | 11141-16-5 |  |
| PCB-1242 (Aroclor 1242) | ND ug/kg |  | 102 | 1 | 06/27/14 12:25 | 07/01/14 19:11 | 53469-21-9 |  |
| PCB-1248 (Aroclor 1248) | ND ug/kg |  | 102 | 1 | 06/27/14 12:25 | 07/01/14 19:11 | 12672-29-6 |  |
| PCB-1254 (Aroclor 1254) | ND ug/kg |  | 102 | 1 | 06/27/14 12:25 | 07/01/14 19:11 | 11097-69-1 |  |
| PCB-1260 (Aroclor 1260) | ND ug/kg |  | 102 | 1 | 06/27/14 12:25 | 07/01/14 19:11 | 11096-82-5 |  |

**Surrogates**

|                          |       |  |        |   |                |                |          |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 88 %. |  | 30-106 | 1 | 06/27/14 12:25 | 07/01/14 19:11 | 877-09-8 |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010      Preparation Method: EPA 3050

|          |            |  |      |   |                |                |           |  |
|----------|------------|--|------|---|----------------|----------------|-----------|--|
| Antimony | ND mg/kg   |  | 0.94 | 1 | 06/26/14 09:35 | 06/27/14 12:21 | 7440-36-0 |  |
| Arsenic  | 2.2 mg/kg  |  | 0.94 | 1 | 06/26/14 09:35 | 06/27/14 12:21 | 7440-38-2 |  |
| Chromium | 3.9 mg/kg  |  | 0.94 | 1 | 06/26/14 09:35 | 06/27/14 12:21 | 7440-47-3 |  |
| Cobalt   | 1.3 mg/kg  |  | 0.94 | 1 | 06/26/14 09:35 | 06/27/14 12:21 | 7440-48-4 |  |
| Iron     | 4420 mg/kg |  | 46.8 | 1 | 06/26/14 09:35 | 06/27/14 12:21 | 7439-89-6 |  |
| Lead     | 3.6 mg/kg  |  | 0.94 | 1 | 06/26/14 09:35 | 06/27/14 12:21 | 7439-92-1 |  |
| Selenium | ND mg/kg   |  | 0.94 | 1 | 06/26/14 09:35 | 06/27/14 12:21 | 7782-49-2 |  |
| Thallium | 1.9 mg/kg  |  | 0.94 | 1 | 06/26/14 09:35 | 06/27/14 12:21 | 7440-28-0 |  |

**8270 MSSV SHORT LIST MICROWAVE**      Analytical Method: EPA 8270      Preparation Method: EPA 3546

|                                |          |  |     |   |                |                |           |  |
|--------------------------------|----------|--|-----|---|----------------|----------------|-----------|--|
| Acenaphthene                   | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 83-32-9   |  |
| Acenaphthylene                 | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 208-96-8  |  |
| Anthracene                     | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 120-12-7  |  |
| Benzo(a)anthracene             | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 56-55-3   |  |
| Benzo(a)pyrene                 | ND ug/kg |  | 175 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 50-32-8   |  |
| Benzo(b)fluoranthene           | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 205-99-2  |  |
| Benzo(g,h,i)perylene           | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 191-24-2  |  |
| Benzo(k)fluoranthene           | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 207-08-9  |  |
| Benzyl alcohol                 | ND ug/kg |  | 681 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 100-51-6  |  |
| 4-Bromophenylphenyl ether      | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 101-55-3  |  |
| Butylbenzylphthalate           | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 85-68-7   |  |
| 4-Chloro-3-methylphenol        | ND ug/kg |  | 681 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 59-50-7   |  |
| 4-Chloroaniline                | ND ug/kg |  | 681 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane     | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 111-91-1  |  |
| bis(2-Chloroethyl) ether       | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 111-44-4  |  |
| bis(2chloro1methylethyl) ether | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 108-60-1  |  |
| 2-Chloronaphthalene            | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 91-58-7   |  |
| 2-Chlorophenol                 | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether     | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 7005-72-3 |  |
| Chrysene                       | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 218-01-9  |  |
| Dibenz(a,h)anthracene          | ND ug/kg |  | 175 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 53-70-3   |  |
| Dibenzofuran                   | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine         | ND ug/kg |  | 681 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 91-94-1   |  |
| 2,4-Dichlorophenol             | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 120-83-2  |  |
| Diethylphthalate               | ND ug/kg |  | 340 | 1 | 06/26/14 13:03 | 06/27/14 22:05 | 84-66-2   |  |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-8 (10-12)**      **Lab ID: 5099765012**      Collected: 06/23/14 11:00      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 681          | 1  | 06/26/14 13:03 | 06/27/14 22:05 |           |      |
| Naphthalene  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1650         | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 340          | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 82 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 83 %.   |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 102 %.  |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 1718-51-0 |      |
| Phenol-d5 (S)  | 87 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 84 %.   |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 92 %.   |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 22:05 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |     |   |  |                |          |  |
|----------|----|-------|-----|---|--|----------------|----------|--|
| Acetone  | ND | ug/kg | 105 | 1 |  | 07/04/14 02:28 | 67-64-1  |  |
| Acrolein | ND | ug/kg | 105 | 1 |  | 07/04/14 02:28 | 107-02-8 |  |

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### ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: TMW-8 (10-12)**      **Lab ID: 5099765012**      Collected: 06/23/14 11:00      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 02:28 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 26.4         | 1  |          | 07/04/14 02:28 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.5         | 1  |          | 07/04/14 02:28 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 02:28 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 02:28 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 02:28 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 105          | 1  |          | 07/04/14 02:28 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 5.3          | 1  |          | 07/04/14 02:28 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: TMW-8 (10-12)**      **Lab ID: 5099765012**      Collected: 06/23/14 11:00      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND           | ug/kg                            | 21.1         | 1  |          | 07/04/14 02:28 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 26.4         | 1  |          | 07/04/14 02:28 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 105          | 1  |          | 07/04/14 02:28 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 5.3          | 1  |          | 07/04/14 02:28 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 10.5         | 1  |          | 07/04/14 02:28 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 116 %.       |                                  | 85-118       | 1  |          | 07/04/14 02:28 | 1868-53-7 |      |
| Toluene-d8 (S)              | 93 %.        |                                  | 71-128       | 1  |          | 07/04/14 02:28 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 107 %.       |                                  | 56-144       | 1  |          | 07/04/14 02:28 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>3.0 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:17 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-2 (1-3)**      **Lab ID: 5099765013**      Collected: 06/23/14 10:10      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8082 GCS PCB**

Analytical Method: EPA 8082      Preparation Method: EPA 3546

|                         |          |  |     |   |                |                |            |  |
|-------------------------|----------|--|-----|---|----------------|----------------|------------|--|
| PCB-1016 (Aroclor 1016) | ND ug/kg |  | 109 | 1 | 06/27/14 12:25 | 07/01/14 19:16 | 12674-11-2 |  |
| PCB-1221 (Aroclor 1221) | ND ug/kg |  | 109 | 1 | 06/27/14 12:25 | 07/01/14 19:16 | 11104-28-2 |  |
| PCB-1232 (Aroclor 1232) | ND ug/kg |  | 109 | 1 | 06/27/14 12:25 | 07/01/14 19:16 | 11141-16-5 |  |
| PCB-1242 (Aroclor 1242) | ND ug/kg |  | 109 | 1 | 06/27/14 12:25 | 07/01/14 19:16 | 53469-21-9 |  |
| PCB-1248 (Aroclor 1248) | ND ug/kg |  | 109 | 1 | 06/27/14 12:25 | 07/01/14 19:16 | 12672-29-6 |  |
| PCB-1254 (Aroclor 1254) | ND ug/kg |  | 109 | 1 | 06/27/14 12:25 | 07/01/14 19:16 | 11097-69-1 |  |
| PCB-1260 (Aroclor 1260) | ND ug/kg |  | 109 | 1 | 06/27/14 12:25 | 07/01/14 19:16 | 11096-82-5 |  |

**Surrogates**

|                          |       |  |        |   |                |                |          |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 74 %. |  | 30-106 | 1 | 06/27/14 12:25 | 07/01/14 19:16 | 877-09-8 |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010      Preparation Method: EPA 3050

|          |            |  |      |   |                |                |           |  |
|----------|------------|--|------|---|----------------|----------------|-----------|--|
| Antimony | ND mg/kg   |  | 0.98 | 1 | 06/26/14 09:35 | 06/27/14 12:23 | 7440-36-0 |  |
| Arsenic  | 2.1 mg/kg  |  | 0.98 | 1 | 06/26/14 09:35 | 06/27/14 12:23 | 7440-38-2 |  |
| Chromium | 5.4 mg/kg  |  | 0.98 | 1 | 06/26/14 09:35 | 06/27/14 12:23 | 7440-47-3 |  |
| Cobalt   | 2.0 mg/kg  |  | 0.98 | 1 | 06/26/14 09:35 | 06/27/14 12:23 | 7440-48-4 |  |
| Iron     | 5250 mg/kg |  | 49.2 | 1 | 06/26/14 09:35 | 06/27/14 12:23 | 7439-89-6 |  |
| Lead     | 3.4 mg/kg  |  | 0.98 | 1 | 06/26/14 09:35 | 06/27/14 12:23 | 7439-92-1 |  |
| Selenium | ND mg/kg   |  | 0.98 | 1 | 06/26/14 09:35 | 06/27/14 12:23 | 7782-49-2 |  |
| Thallium | 2.5 mg/kg  |  | 0.98 | 1 | 06/26/14 09:35 | 06/27/14 12:23 | 7440-28-0 |  |

**8270 MSSV SHORT LIST MICROWAVE**      Analytical Method: EPA 8270      Preparation Method: EPA 3546

|                                |          |  |     |   |                |                |           |  |
|--------------------------------|----------|--|-----|---|----------------|----------------|-----------|--|
| Acenaphthene                   | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 83-32-9   |  |
| Acenaphthylene                 | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 208-96-8  |  |
| Anthracene                     | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 120-12-7  |  |
| Benzo(a)anthracene             | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 56-55-3   |  |
| Benzo(a)pyrene                 | ND ug/kg |  | 182 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 50-32-8   |  |
| Benzo(b)fluoranthene           | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 205-99-2  |  |
| Benzo(g,h,i)perylene           | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 191-24-2  |  |
| Benzo(k)fluoranthene           | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 207-08-9  |  |
| Benzyl alcohol                 | ND ug/kg |  | 708 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 100-51-6  |  |
| 4-Bromophenylphenyl ether      | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 101-55-3  |  |
| Butylbenzylphthalate           | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 85-68-7   |  |
| 4-Chloro-3-methylphenol        | ND ug/kg |  | 708 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 59-50-7   |  |
| 4-Chloroaniline                | ND ug/kg |  | 708 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane     | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 111-91-1  |  |
| bis(2-Chloroethyl) ether       | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 111-44-4  |  |
| bis(2chloro1methylethyl) ether | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 108-60-1  |  |
| 2-Chloronaphthalene            | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 91-58-7   |  |
| 2-Chlorophenol                 | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether     | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 7005-72-3 |  |
| Chrysene                       | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 218-01-9  |  |
| Dibenz(a,h)anthracene          | ND ug/kg |  | 182 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 53-70-3   |  |
| Dibenzofuran                   | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine         | ND ug/kg |  | 708 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 91-94-1   |  |
| 2,4-Dichlorophenol             | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 120-83-2  |  |
| Diethylphthalate               | ND ug/kg |  | 354 | 1 | 06/26/14 13:03 | 06/27/14 22:27 | 84-66-2   |  |

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### ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-2 (1-3)** Lab ID: **5099765013** Collected: 06/23/14 10:10 Received: 06/24/14 12:10 Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1720         | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1720         | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 708          | 1  | 06/26/14 13:03 | 06/27/14 22:27 |           |      |
| Naphthalene  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1720         | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1720         | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1720         | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1720         | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1720         | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 354          | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 81 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 82 %.   |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 105 %.  |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 1718-51-0 |      |
| Phenol-d5 (S)  | 86 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 83 %.   |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 89 %.   |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 22:27 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |      |   |  |                |          |  |
|----------|----|-------|------|---|--|----------------|----------|--|
| Acetone  | ND | ug/kg | 87.0 | 1 |  | 07/04/14 02:56 | 67-64-1  |  |
| Acrolein | ND | ug/kg | 87.0 | 1 |  | 07/04/14 02:56 | 107-02-8 |  |

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### ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-2 (1-3)**      **Lab ID: 5099765013**      Collected: 06/23/14 10:10      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 87.0         | 1  |          | 07/04/14 02:56 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 21.8         | 1  |          | 07/04/14 02:56 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 8.7          | 1  |          | 07/04/14 02:56 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 87.0         | 1  |          | 07/04/14 02:56 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 87.0         | 1  |          | 07/04/14 02:56 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 87.0         | 1  |          | 07/04/14 02:56 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 87.0         | 1  |          | 07/04/14 02:56 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 02:56 | 99-87-6    |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-2 (1-3)**      **Lab ID: 5099765013**      Collected: 06/23/14 10:10      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND           | ug/kg                            | 17.4         | 1  |          | 07/04/14 02:56 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 21.8         | 1  |          | 07/04/14 02:56 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 87.0         | 1  |          | 07/04/14 02:56 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 4.4          | 1  |          | 07/04/14 02:56 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 8.7          | 1  |          | 07/04/14 02:56 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 114 %.       |                                  | 85-118       | 1  |          | 07/04/14 02:56 | 1868-53-7 |      |
| Toluene-d8 (S)              | 93 %.        |                                  | 71-128       | 1  |          | 07/04/14 02:56 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 105 %.       |                                  | 56-144       | 1  |          | 07/04/14 02:56 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>8.0 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:17 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-2 (18-20)**      **Lab ID: 5099765014**      Collected: 06/23/14 10:30      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                            | Results | Units  | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---------------------------------------|---------|--|--------------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB</b>                   |         | Analytical Method: EPA 8082 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)               | ND      | ug/kg  | 111          | 1  | 06/30/14 10:55 | 07/01/14 19:40 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)               | ND      | ug/kg  | 111          | 1  | 06/30/14 10:55 | 07/01/14 19:40 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)               | ND      | ug/kg  | 111          | 1  | 06/30/14 10:55 | 07/01/14 19:40 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)               | ND      | ug/kg  | 111          | 1  | 06/30/14 10:55 | 07/01/14 19:40 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)               | ND      | ug/kg  | 111          | 1  | 06/30/14 10:55 | 07/01/14 19:40 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)               | ND      | ug/kg  | 111          | 1  | 06/30/14 10:55 | 07/01/14 19:40 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)               | ND      | ug/kg  | 111          | 1  | 06/30/14 10:55 | 07/01/14 19:40 | 11096-82-5 |      |
| <b>Surrogates</b>                     |         |  |              |    |                |                |            |      |
| Tetrachloro-m-xylene (S)              | 78 %.   |  | 30-106       | 1  | 06/30/14 10:55 | 07/01/14 19:40 | 877-09-8   |      |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010 Preparation Method: EPA 3050 |              |    |                |                |            |      |
| Antimony                              | ND      | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 12:25 | 7440-36-0  |      |
| Arsenic                               | 1.9     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 12:25 | 7440-38-2  |      |
| Chromium                              | 8.8     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 12:25 | 7440-47-3  |      |
| Cobalt                                | 1.6     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 12:25 | 7440-48-4  |      |
| Iron                                  | 4680    | mg/kg  | 55.7         | 1  | 06/26/14 09:35 | 06/27/14 12:25 | 7439-89-6  |      |
| Lead                                  | 3.5     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 12:25 | 7439-92-1  |      |
| Selenium                              | ND      | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 12:25 | 7782-49-2  |      |
| Thallium                              | 2.7     | mg/kg  | 1.1          | 1  | 06/26/14 09:35 | 06/27/14 12:25 | 7440-28-0  |      |
| <b>8270 MSSV SHORT LIST MICROWAVE</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3546 |              |    |                |                |            |      |
| Acenaphthene                          | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 83-32-9    |      |
| Acenaphthylene                        | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 208-96-8   |      |
| Anthracene                            | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 120-12-7   |      |
| Benzo(a)anthracene                    | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 56-55-3    |      |
| Benzo(a)pyrene                        | ND      | ug/kg  | 190          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 50-32-8    |      |
| Benzo(b)fluoranthene                  | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 205-99-2   |      |
| Benzo(g,h,i)perylene                  | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 191-24-2   |      |
| Benzo(k)fluoranthene                  | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 207-08-9   |      |
| Benzyl alcohol                        | ND      | ug/kg  | 739          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 100-51-6   |      |
| 4-Bromophenylphenyl ether             | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 101-55-3   |      |
| Butylbenzylphthalate                  | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 85-68-7    |      |
| 4-Chloro-3-methylphenol               | ND      | ug/kg  | 739          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 59-50-7    |      |
| 4-Chloroaniline                       | ND      | ug/kg  | 739          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 106-47-8   |      |
| bis(2-Chloroethoxy)methane            | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 111-91-1   |      |
| bis(2-Chloroethyl) ether              | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 111-44-4   |      |
| bis(2chloro1methylethyl) ether        | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 108-60-1   |      |
| 2-Chloronaphthalene                   | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 91-58-7    |      |
| 2-Chlorophenol                        | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 95-57-8    |      |
| 4-Chlorophenylphenyl ether            | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 7005-72-3  |      |
| Chrysene                              | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 218-01-9   |      |
| Dibenz(a,h)anthracene                 | ND      | ug/kg  | 190          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 53-70-3    |      |
| Dibenzofuran                          | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 132-64-9   |      |
| 3,3'-Dichlorobenzidine                | ND      | ug/kg  | 739          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 91-94-1    |      |
| 2,4-Dichlorophenol                    | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 120-83-2   |      |
| Diethylphthalate                      | ND      | ug/kg  | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 84-66-2    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-2 (18-20)**      **Lab ID: 5099765014**      Collected: 06/23/14 10:30      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1790         | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1790         | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 739          | 1  | 06/26/14 13:03 | 06/27/14 22:50 |           |      |
| Naphthalene  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1790         | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1790         | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1790         | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1790         | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1790         | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 369          | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 81 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 79 %.   |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 83 %.   |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 1718-51-0 |      |
| Phenol-d5 (S)  | 87 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 84 %.   |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 91 %.   |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 22:50 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |      |   |  |                |          |  |
|----------|----|-------|------|---|--|----------------|----------|--|
| Acetone  | ND | ug/kg | 87.1 | 1 |  | 07/04/14 05:12 | 67-64-1  |  |
| Acrolein | ND | ug/kg | 87.1 | 1 |  | 07/04/14 05:12 | 107-02-8 |  |

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### ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: P-2 (18-20)**      **Lab ID: 5099765014**      Collected: 06/23/14 10:30      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 87.1         | 1  |          | 07/04/14 05:12 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 21.8         | 1  |          | 07/04/14 05:12 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 8.7          | 1  |          | 07/04/14 05:12 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 87.1         | 1  |          | 07/04/14 05:12 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 87.1         | 1  |          | 07/04/14 05:12 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 87.1         | 1  |          | 07/04/14 05:12 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 87.1         | 1  |          | 07/04/14 05:12 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 4.4          | 1  |          | 07/04/14 05:12 | 99-87-6    |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: P-2 (18-20)**      **Lab ID: 5099765014**      Collected: 06/23/14 10:30      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |               | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND            | ug/kg                            | 17.4         | 1  |          | 07/04/14 05:12 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND            | ug/kg                            | 21.8         | 1  |          | 07/04/14 05:12 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 1634-04-4 |      |
| Naphthalene                 | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 91-20-3   |      |
| n-Propylbenzene             | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 103-65-1  |      |
| Styrene                     | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 79-34-5   |      |
| Tetrachloroethene           | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 127-18-4  |      |
| Toluene                     | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 79-00-5   |      |
| Trichloroethene             | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 79-01-6   |      |
| Trichlorofluoromethane      | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 108-67-8  |      |
| Vinyl acetate               | ND            | ug/kg                            | 87.1         | 1  |          | 07/04/14 05:12 | 108-05-4  |      |
| Vinyl chloride              | ND            | ug/kg                            | 4.4          | 1  |          | 07/04/14 05:12 | 75-01-4   |      |
| Xylene (Total)              | ND            | ug/kg                            | 8.7          | 1  |          | 07/04/14 05:12 | 1330-20-7 |      |
| <b>Surrogates</b>           |               |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 112 %.        |                                  | 85-118       | 1  |          | 07/04/14 05:12 | 1868-53-7 |      |
| Toluene-d8 (S)              | 93 %.         |                                  | 71-128       | 1  |          | 07/04/14 05:12 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 106 %.        |                                  | 56-144       | 1  |          | 07/04/14 05:12 | 460-00-4  |      |
| <b>Percent Moisture</b>     |               | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>11.3 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:17 |           |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: Subsurf-Dup**      **Lab ID: 5099765015**      Collected: 06/23/14 08:00      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8082 GCS PCB**

Analytical Method: EPA 8082      Preparation Method: EPA 3546

|                         |          |  |     |   |                |                |            |  |
|-------------------------|----------|--|-----|---|----------------|----------------|------------|--|
| PCB-1016 (Aroclor 1016) | ND ug/kg |  | 103 | 1 | 06/30/14 10:55 | 07/01/14 19:57 | 12674-11-2 |  |
| PCB-1221 (Aroclor 1221) | ND ug/kg |  | 103 | 1 | 06/30/14 10:55 | 07/01/14 19:57 | 11104-28-2 |  |
| PCB-1232 (Aroclor 1232) | ND ug/kg |  | 103 | 1 | 06/30/14 10:55 | 07/01/14 19:57 | 11141-16-5 |  |
| PCB-1242 (Aroclor 1242) | ND ug/kg |  | 103 | 1 | 06/30/14 10:55 | 07/01/14 19:57 | 53469-21-9 |  |
| PCB-1248 (Aroclor 1248) | ND ug/kg |  | 103 | 1 | 06/30/14 10:55 | 07/01/14 19:57 | 12672-29-6 |  |
| PCB-1254 (Aroclor 1254) | ND ug/kg |  | 103 | 1 | 06/30/14 10:55 | 07/01/14 19:57 | 11097-69-1 |  |
| PCB-1260 (Aroclor 1260) | ND ug/kg |  | 103 | 1 | 06/30/14 10:55 | 07/01/14 19:57 | 11096-82-5 |  |

**Surrogates**

|                          |       |  |        |   |                |                |          |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 79 %. |  | 30-106 | 1 | 06/30/14 10:55 | 07/01/14 19:57 | 877-09-8 |  |
|--------------------------|-------|--|--------|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010      Preparation Method: EPA 3050

|          |            |  |      |   |                |                |           |  |
|----------|------------|--|------|---|----------------|----------------|-----------|--|
| Antimony | ND mg/kg   |  | 0.96 | 1 | 06/26/14 09:35 | 06/27/14 12:27 | 7440-36-0 |  |
| Arsenic  | 3.6 mg/kg  |  | 0.96 | 1 | 06/26/14 09:35 | 06/27/14 12:27 | 7440-38-2 |  |
| Chromium | 3.1 mg/kg  |  | 0.96 | 1 | 06/26/14 09:35 | 06/27/14 12:27 | 7440-47-3 |  |
| Cobalt   | 1.1 mg/kg  |  | 0.96 | 1 | 06/26/14 09:35 | 06/27/14 12:27 | 7440-48-4 |  |
| Iron     | 5410 mg/kg |  | 47.8 | 1 | 06/26/14 09:35 | 06/27/14 12:27 | 7439-89-6 |  |
| Lead     | 6.1 mg/kg  |  | 0.96 | 1 | 06/26/14 09:35 | 06/27/14 12:27 | 7439-92-1 |  |
| Selenium | ND mg/kg   |  | 0.96 | 1 | 06/26/14 09:35 | 06/27/14 12:27 | 7782-49-2 |  |
| Thallium | 2.7 mg/kg  |  | 0.96 | 1 | 06/26/14 09:35 | 06/27/14 12:27 | 7440-28-0 |  |

**8270 MSSV SHORT LIST MICROWAVE**      Analytical Method: EPA 8270      Preparation Method: EPA 3546

|                                |          |  |     |   |                |                |           |  |
|--------------------------------|----------|--|-----|---|----------------|----------------|-----------|--|
| Acenaphthene                   | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 83-32-9   |  |
| Acenaphthylene                 | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 208-96-8  |  |
| Anthracene                     | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 120-12-7  |  |
| Benzo(a)anthracene             | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 56-55-3   |  |
| Benzo(a)pyrene                 | ND ug/kg |  | 173 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 50-32-8   |  |
| Benzo(b)fluoranthene           | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 205-99-2  |  |
| Benzo(g,h,i)perylene           | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 191-24-2  |  |
| Benzo(k)fluoranthene           | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 207-08-9  |  |
| Benzyl alcohol                 | ND ug/kg |  | 673 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 100-51-6  |  |
| 4-Bromophenylphenyl ether      | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 101-55-3  |  |
| Butylbenzylphthalate           | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 85-68-7   |  |
| 4-Chloro-3-methylphenol        | ND ug/kg |  | 673 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 59-50-7   |  |
| 4-Chloroaniline                | ND ug/kg |  | 673 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane     | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 111-91-1  |  |
| bis(2-Chloroethyl) ether       | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 111-44-4  |  |
| bis(2chloro1methylethyl) ether | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 108-60-1  |  |
| 2-Chloronaphthalene            | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 91-58-7   |  |
| 2-Chlorophenol                 | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether     | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 7005-72-3 |  |
| Chrysene                       | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 218-01-9  |  |
| Dibenz(a,h)anthracene          | ND ug/kg |  | 173 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 53-70-3   |  |
| Dibenzofuran                   | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine         | ND ug/kg |  | 673 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 91-94-1   |  |
| 2,4-Dichlorophenol             | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 120-83-2  |  |
| Diethylphthalate               | ND ug/kg |  | 337 | 1 | 06/26/14 13:03 | 06/27/14 23:12 | 84-66-2   |  |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Sibley-Accucast  
Pace Project No.: 5099765

**Sample: Subsurf-Dup**      **Lab ID: 5099765015**      Collected: 06/23/14 08:00      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters   | Results | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV SHORT LIST MICROWAVE</b> Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |              |    |                |                |           |      |
| 2,4-Dimethylphenol   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 105-67-9  |      |
| Dimethylphthalate  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 131-11-3  |      |
| Di-n-butylphthalate  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 606-20-2  |      |
| Di-n-octylphthalate  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 117-81-7  |      |
| Fluoranthene   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 206-44-0  |      |
| Fluorene   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 87-68-3   |      |
| Hexachlorobenzene  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 77-47-4   |      |
| Hexachloroethane   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 193-39-5  |      |
| Isophorone   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 78-59-1   |      |
| 2-Methylnaphthalene  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | ND      | ug/kg | 673          | 1  | 06/26/14 13:03 | 06/27/14 23:12 |           |      |
| Naphthalene  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 91-20-3   |      |
| 2-Nitroaniline   | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 88-74-4   |      |
| 3-Nitroaniline   | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 99-09-2   |      |
| 4-Nitroaniline   | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 100-01-6  |      |
| Nitrobenzene   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 98-95-3   |      |
| 2-Nitrophenol  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 88-75-5   |      |
| 4-Nitrophenol  | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 86-30-6   |      |
| Pentachlorophenol  | ND      | ug/kg | 1630         | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 87-86-5   |      |
| Phenanthrene   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 85-01-8   |      |
| Phenol   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 108-95-2  |      |
| Pyrene   | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 129-00-0  |      |
| 2,4,5-Trichlorophenol  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | ND      | ug/kg | 337          | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |              |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 77 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)   | 79 %.   |       | 31-94        | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 100 %.  |       | 26-110       | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 1718-51-0 |      |
| Phenol-d5 (S)  | 82 %.   |       | 28-101       | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 80 %.   |       | 24-104       | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 84 %.   |       | 16-122       | 1  | 06/26/14 13:03 | 06/27/14 23:12 | 118-79-6  |      |

**8260 MSV 5035A VOA**

Analytical Method: EPA 8260

|          |    |       |     |   |  |                |          |  |
|----------|----|-------|-----|---|--|----------------|----------|--|
| Acetone  | ND | ug/kg | 104 | 1 |  | 07/04/14 05:40 | 67-64-1  |  |
| Acrolein | ND | ug/kg | 104 | 1 |  | 07/04/14 05:40 | 107-02-8 |  |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: Subsurf-Dup**      **Lab ID: 5099765015**      Collected: 06/23/14 08:00      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acrylonitrile               | ND      | ug/kg                       | 104          | 1  |          | 07/04/14 05:40 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 25.9         | 1  |          | 07/04/14 05:40 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.4         | 1  |          | 07/04/14 05:40 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 104          | 1  |          | 07/04/14 05:40 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 104          | 1  |          | 07/04/14 05:40 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 104          | 1  |          | 07/04/14 05:40 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 104          | 1  |          | 07/04/14 05:40 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 5.2          | 1  |          | 07/04/14 05:40 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: Subsurf-Dup**      **Lab ID: 5099765015**      Collected: 06/23/14 08:00      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                  | Results      | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|--------------|----------------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |              | Analytical Method: EPA 8260      |              |    |          |                |           |      |
| Methylene Chloride          | ND           | ug/kg                            | 20.8         | 1  |          | 07/04/14 05:40 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND           | ug/kg                            | 25.9         | 1  |          | 07/04/14 05:40 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 1634-04-4 |      |
| Naphthalene                 | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 91-20-3   |      |
| n-Propylbenzene             | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 103-65-1  |      |
| Styrene                     | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 79-34-5   |      |
| Tetrachloroethene           | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 127-18-4  |      |
| Toluene                     | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 79-00-5   |      |
| Trichloroethene             | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 79-01-6   |      |
| Trichlorofluoromethane      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 108-67-8  |      |
| Vinyl acetate               | ND           | ug/kg                            | 104          | 1  |          | 07/04/14 05:40 | 108-05-4  |      |
| Vinyl chloride              | ND           | ug/kg                            | 5.2          | 1  |          | 07/04/14 05:40 | 75-01-4   |      |
| Xylene (Total)              | ND           | ug/kg                            | 10.4         | 1  |          | 07/04/14 05:40 | 1330-20-7 |      |
| <b>Surrogates</b>           |              |                                  |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 113 %.       |                                  | 85-118       | 1  |          | 07/04/14 05:40 | 1868-53-7 |      |
| Toluene-d8 (S)              | 92 %.        |                                  | 71-128       | 1  |          | 07/04/14 05:40 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 103 %.       |                                  | 56-144       | 1  |          | 07/04/14 05:40 | 460-00-4  |      |
| <b>Percent Moisture</b>     |              | Analytical Method: ASTM D2974-87 |              |    |          |                |           |      |
| Percent Moisture            | <b>3.3 %</b> |                                  | 0.10         | 1  |          | 06/26/14 15:17 |           |      |

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### ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample:** Trip Blank-2      **Lab ID:** 5099765016      Collected: 06/23/14 08:00      Received: 06/24/14 12:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Acetone                     | ND      | ug/kg                       | 100          | 1  |          | 07/04/14 06:07 | 67-64-1    |      |
| Acrolein                    | ND      | ug/kg                       | 100          | 1  |          | 07/04/14 06:07 | 107-02-8   |      |
| Acrylonitrile               | ND      | ug/kg                       | 100          | 1  |          | 07/04/14 06:07 | 107-13-1   |      |
| Benzene                     | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 71-43-2    |      |
| Bromobenzene                | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 108-86-1   |      |
| Bromochloromethane          | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 74-97-5    |      |
| Bromodichloromethane        | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 75-27-4    |      |
| Bromoform                   | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 75-25-2    |      |
| Bromomethane                | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/kg                       | 25.0         | 1  |          | 07/04/14 06:07 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/kg                       | 10.0         | 1  |          | 07/04/14 06:07 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 108-90-7   |      |
| Chloroethane                | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 75-00-3    |      |
| Chloroform                  | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 67-66-3    |      |
| Chloromethane               | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/kg                       | 100          | 1  |          | 07/04/14 06:07 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/kg                       | 100          | 1  |          | 07/04/14 06:07 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/kg                       | 100          | 1  |          | 07/04/14 06:07 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/kg                       | 100          | 1  |          | 07/04/14 06:07 | 74-88-4    |      |

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## ANALYTICAL RESULTS

Project: Sibley-Accucast

Pace Project No.: 5099765

**Sample: Trip Blank-2**      **Lab ID: 5099765016**      Collected: 06/23/14 08:00      Received: 06/24/14 12:10      Matrix: Solid

**Results reported on a "wet-weight" basis**

| Parameters                  | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|-----------------------------|--------------|----|----------|----------------|-----------|------|
| <b>8260 MSV 5035A VOA</b>   |         | Analytical Method: EPA 8260 |              |    |          |                |           |      |
| Isopropylbenzene (Cumene)   | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 98-82-8   |      |
| p-Isopropyltoluene          | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 99-87-6   |      |
| Methylene Chloride          | ND      | ug/kg                       | 20.0         | 1  |          | 07/04/14 06:07 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/kg                       | 25.0         | 1  |          | 07/04/14 06:07 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 103-65-1  |      |
| Styrene                     | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 127-18-4  |      |
| Toluene                     | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/kg                       | 100          | 1  |          | 07/04/14 06:07 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/kg                       | 5.0          | 1  |          | 07/04/14 06:07 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/kg                       | 10.0         | 1  |          | 07/04/14 06:07 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                             |              |    |          |                |           |      |
| Dibromofluoromethane (S)    | 113 %.  |                             | 85-118       | 1  |          | 07/04/14 06:07 | 1868-53-7 |      |
| Toluene-d8 (S)              | 93 %.   |                             | 71-128       | 1  |          | 07/04/14 06:07 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)    | 105 %.  |                             | 56-144       | 1  |          | 07/04/14 06:07 | 460-00-4  |      |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

QC Batch: MPRP/13645 Analysis Method: EPA 6010  
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
 Associated Lab Samples: 5099765001, 5099765002, 5099765003, 5099765004, 5099765005, 5099765006, 5099765007, 5099765008, 5099765009, 5099765010, 5099765011, 5099765012, 5099765013, 5099765014, 5099765015

METHOD BLANK: 1117278 Matrix: Solid  
 Associated Lab Samples: 5099765001, 5099765002, 5099765003, 5099765004, 5099765005, 5099765006, 5099765007, 5099765008, 5099765009, 5099765010, 5099765011, 5099765012, 5099765013, 5099765014, 5099765015

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Antimony  | mg/kg | ND           | 1.0             | 06/27/14 11:22 |            |
| Arsenic   | mg/kg | ND           | 1.0             | 06/27/14 11:22 |            |
| Chromium  | mg/kg | ND           | 1.0             | 06/27/14 11:22 |            |
| Cobalt    | mg/kg | ND           | 1.0             | 06/27/14 11:22 |            |
| Iron      | mg/kg | ND           | 50.0            | 06/27/14 11:22 |            |
| Lead      | mg/kg | ND           | 1.0             | 06/27/14 11:22 |            |
| Selenium  | mg/kg | ND           | 1.0             | 06/27/14 11:22 |            |
| Thallium  | mg/kg | ND           | 1.0             | 06/27/14 11:22 |            |

LABORATORY CONTROL SAMPLE: 1117279

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Antimony  | mg/kg | 50          | 52.8       | 106       | 80-120       |            |
| Arsenic   | mg/kg | 50          | 51.6       | 103       | 80-120       |            |
| Chromium  | mg/kg | 50          | 49.8       | 100       | 80-120       |            |
| Cobalt    | mg/kg | 50          | 50.8       | 102       | 80-120       |            |
| Iron      | mg/kg | 500         | 516        | 103       | 80-120       |            |
| Lead      | mg/kg | 50          | 50.0       | 100       | 80-120       |            |
| Selenium  | mg/kg | 50          | 50.1       | 100       | 80-120       |            |
| Thallium  | mg/kg | 50          | 51.6       | 103       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117280 1117281

| Parameter | Units | MS          |        | MSD         |        | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       | Spike Conc. | Result | Spike Conc. | Result |           |            |          |           |              |     |         |      |
| Antimony  | mg/kg | ND          | 52.3   | 48.9        | 22.3   | 20.9      | 42         | 43       | 75-125    | 7            | 20  | M3      |      |
| Arsenic   | mg/kg | 2.0         | 52.3   | 48.9        | 55.2   | 52.0      | 102        | 102      | 75-125    | 6            | 20  |         |      |
| Chromium  | mg/kg | 7.4         | 52.3   | 48.9        | 60.4   | 56.8      | 101        | 101      | 75-125    | 6            | 20  |         |      |
| Cobalt    | mg/kg | 5.3         | 52.3   | 48.9        | 57.2   | 53.7      | 99         | 99       | 75-125    | 6            | 20  |         |      |
| Iron      | mg/kg | 7180        | 523    | 489         | 8060   | 8190      | 167        | 206      | 75-125    | 2            | 20  | P6      |      |
| Lead      | mg/kg | 5.5         | 52.3   | 48.9        | 56.9   | 53.5      | 98         | 98       | 75-125    | 6            | 20  |         |      |
| Selenium  | mg/kg | ND          | 52.3   | 48.9        | 53.2   | 50.1      | 102        | 102      | 75-125    | 6            | 20  |         |      |
| Thallium  | mg/kg | 2.3         | 52.3   | 48.9        | 55.5   | 52.1      | 102        | 102      | 75-125    | 6            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

QC Batch: MSV/66435

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 5099765001, 5099765002, 5099765003

METHOD BLANK: 1122264

Matrix: Solid

Associated Lab Samples: 5099765001, 5099765002, 5099765003

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 07/03/14 04:02 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 07/03/14 04:02 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 07/03/14 04:02 |            |
| Acetone                     | ug/kg | ND           | 100             | 07/03/14 04:02 |            |
| Acrolein                    | ug/kg | ND           | 100             | 07/03/14 04:02 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 07/03/14 04:02 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 07/03/14 04:02 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

METHOD BLANK: 1122264

Matrix: Solid

Associated Lab Samples: 5099765001, 5099765002, 5099765003

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 07/03/14 04:02 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 07/03/14 04:02 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 07/03/14 04:02 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 07/03/14 04:02 | N2         |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 07/03/14 04:02 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 07/03/14 04:02 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 07/03/14 04:02 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 07/03/14 04:02 |            |
| 4-Bromofluorobenzene (S)    | %     | 106          | 56-144          | 07/03/14 04:02 |            |
| Dibromofluoromethane (S)    | %     | 112          | 85-118          | 07/03/14 04:02 |            |
| Toluene-d8 (S)              | %     | 95           | 71-128          | 07/03/14 04:02 |            |

LABORATORY CONTROL SAMPLE: 1122265

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/kg | 50          | 40.1       | 80        | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 43.8       | 88        | 65-124       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 44.4       | 89        | 66-126       |            |
| 1,2,4-Trimethylbenzene    | ug/kg | 50          | 35.0       | 70        | 67-126       |            |
| 1,2-Dichloropropane       | ug/kg | 50          | 42.3       | 85        | 75-118       |            |
| Benzene                   | ug/kg | 50          | 42.9       | 86        | 74-119       |            |
| Chlorobenzene             | ug/kg | 50          | 40.2       | 80        | 77-122       |            |
| Chloroform                | ug/kg | 50          | 38.8       | 78        | 75-124       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

LABORATORY CONTROL SAMPLE: 1122265

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Ethylbenzene              | ug/kg | 50          | 37.3       | 75        | 72-123       |            |
| Isopropylbenzene (Cumene) | ug/kg | 50          | 34.9       | 70        | 65-123       |            |
| Methyl-tert-butyl ether   | ug/kg | 100         | 84.8       | 85        | 68-120       |            |
| Naphthalene               | ug/kg | 50          | 39.8       | 80        | 67-131       |            |
| Tetrachloroethene         | ug/kg | 50          | 39.9       | 80        | 72-126       |            |
| Toluene                   | ug/kg | 50          | 40.1       | 80        | 71-121       |            |
| Trichloroethene           | ug/kg | 50          | 42.4       | 85        | 74-123       |            |
| Vinyl chloride            | ug/kg | 50          | 48.0       | 96        | 55-128       |            |
| Xylene (Total)            | ug/kg | 150         | 111        | 74        | 66-124       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 93        | 56-144       |            |
| Dibromofluoromethane (S)  | %     |             |            | 96        | 85-118       |            |
| Toluene-d8 (S)            | %     |             |            | 102       | 71-128       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1122266 1122267

| Parameter                 | Units | MS                |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual     |
|---------------------------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|----------|
|                           |       | 5099605013 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |          |
| 1,1,1-Trichloroethane     | ug/kg | ND                | 51.8        | 47.1        | 39.3      | 43.6     | 76        | 93           | 26-143 | 10      | 20       |
| 1,1,2,2-Tetrachloroethane | ug/kg | ND                | 51.8        | 47.1        | 37.0      | 38.8     | 71        | 82           | 10-156 | 5       | 20       |
| 1,1-Dichloroethene        | ug/kg | ND                | 51.8        | 47.1        | 46.3      | 46.3     | 89        | 98           | 31-146 | 0       | 20       |
| 1,2,4-Trimethylbenzene    | ug/kg | ND                | 51.8        | 47.1        | 11.7      | 29.8     | 23        | 63           | 10-139 | 87      | 20 R1    |
| 1,2-Dichloropropane       | ug/kg | ND                | 51.8        | 47.1        | 39.5      | 41.4     | 76        | 88           | 29-135 | 5       | 20       |
| Benzene                   | ug/kg | ND                | 51.8        | 47.1        | 37.9      | 43.1     | 73        | 92           | 27-140 | 13      | 20       |
| Chlorobenzene             | ug/kg | ND                | 51.8        | 47.1        | 22.6      | 37.1     | 44        | 79           | 10-136 | 48      | 20 R1    |
| Chloroform                | ug/kg | ND                | 51.8        | 47.1        | 38.7      | 39.0     | 75        | 83           | 36-138 | 1       | 20       |
| Ethylbenzene              | ug/kg | ND                | 51.8        | 47.1        | 17.5      | 36.2     | 34        | 77           | 10-144 | 69      | 20 R1    |
| Isopropylbenzene (Cumene) | ug/kg | ND                | 51.8        | 47.1        | 13.9      | 33.7     | 27        | 72           | 10-134 | 83      | 20 R1    |
| Methyl-tert-butyl ether   | ug/kg | ND                | 104         | 94          | 87.2      | 81.0     | 84        | 86           | 30-147 | 7       | 20       |
| Naphthalene               | ug/kg | ND                | 51.8        | 47.1        | 21.2      | 23.2     | 41        | 49           | 10-130 | 9       | 20       |
| Tetrachloroethene         | ug/kg | 255               | 51.8        | 47.1        | 149       | 365      | -206      | 232          | 10-153 | 84      | 20 M0,R1 |
| Toluene                   | ug/kg | ND                | 51.8        | 47.1        | 26.6      | 40.7     | 51        | 86           | 10-140 | 42      | 20 R1    |
| Trichloroethene           | ug/kg | ND                | 51.8        | 47.1        | 31.2      | 42.9     | 60        | 91           | 17-148 | 32      | 20 R1    |
| Vinyl chloride            | ug/kg | ND                | 51.8        | 47.1        | 56.0      | 51.0     | 108       | 108          | 30-145 | 9       | 20       |
| Xylene (Total)            | ug/kg | ND                | 155         | 141         | 52.5      | 105      | 34        | 74           | 10-143 | 66      | 20 R1,RS |
| 4-Bromofluorobenzene (S)  | %     |                   |             |             |           |          | 99        | 92           | 56-144 |         |          |
| Dibromofluoromethane (S)  | %     |                   |             |             |           |          | 101       | 94           | 85-118 |         |          |
| Toluene-d8 (S)            | %     |                   |             |             |           |          | 103       | 105          | 71-128 |         |          |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

QC Batch: MSV/66492 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 5099765004, 5099765005, 5099765006, 5099765007, 5099765008, 5099765009, 5099765010, 5099765011, 5099765012, 5099765013

METHOD BLANK: 1123194 Matrix: Solid  
 Associated Lab Samples: 5099765004, 5099765005, 5099765006, 5099765007, 5099765008, 5099765009, 5099765010, 5099765011, 5099765012, 5099765013

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 07/03/14 22:23 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 07/03/14 22:23 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 07/03/14 22:23 |            |
| Acetone                     | ug/kg | ND           | 100             | 07/03/14 22:23 |            |
| Acrolein                    | ug/kg | ND           | 100             | 07/03/14 22:23 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 07/03/14 22:23 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 07/03/14 22:23 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

METHOD BLANK: 1123194

Matrix: Solid

Associated Lab Samples: 5099765004, 5099765005, 5099765006, 5099765007, 5099765008, 5099765009, 5099765010, 5099765011, 5099765012, 5099765013

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 07/03/14 22:23 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 07/03/14 22:23 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 07/03/14 22:23 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 07/03/14 22:23 | N2         |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 07/03/14 22:23 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 07/03/14 22:23 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 07/03/14 22:23 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 07/03/14 22:23 |            |
| 4-Bromofluorobenzene (S)    | %     | 106          | 56-144          | 07/03/14 22:23 |            |
| Dibromofluoromethane (S)    | %     | 112          | 85-118          | 07/03/14 22:23 |            |
| Toluene-d8 (S)              | %     | 94           | 71-128          | 07/03/14 22:23 |            |

LABORATORY CONTROL SAMPLE: 1123195

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/kg | 50          | 48.6       | 97        | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 43.9       | 88        | 65-124       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 44.6       | 89        | 66-126       |            |
| 1,2,4-Trimethylbenzene    | ug/kg | 50          | 38.7       | 77        | 67-126       |            |
| 1,2-Dichloropropane       | ug/kg | 50          | 46.1       | 92        | 75-118       |            |
| Benzene                   | ug/kg | 50          | 48.9       | 98        | 74-119       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

LABORATORY CONTROL SAMPLE: 1123195

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Chlorobenzene             | ug/kg | 50          | 44.7       | 89        | 77-122       |            |
| Chloroform                | ug/kg | 50          | 43.2       | 86        | 75-124       |            |
| Ethylbenzene              | ug/kg | 50          | 43.9       | 88        | 72-123       |            |
| Isopropylbenzene (Cumene) | ug/kg | 50          | 46.2       | 92        | 65-123       |            |
| Methyl-tert-butyl ether   | ug/kg | 100         | 100        | 100       | 68-120       |            |
| Naphthalene               | ug/kg | 50          | 51.2       | 102       | 67-131       |            |
| Tetrachloroethene         | ug/kg | 50          | 44.8       | 90        | 72-126       |            |
| Toluene                   | ug/kg | 50          | 46.6       | 93        | 71-121       |            |
| Trichloroethene           | ug/kg | 50          | 48.4       | 97        | 74-123       |            |
| Vinyl chloride            | ug/kg | 50          | 51.2       | 102       | 55-128       |            |
| Xylene (Total)            | ug/kg | 150         | 136        | 91        | 66-124       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 95        | 56-144       |            |
| Dibromofluoromethane (S)  | %     |             |            | 94        | 85-118       |            |
| Toluene-d8 (S)            | %     |             |            | 102       | 71-128       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

QC Batch: MSV/66496

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 5099765014, 5099765015, 5099765016

METHOD BLANK: 1123224

Matrix: Solid

Associated Lab Samples: 5099765014, 5099765015, 5099765016

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 07/04/14 04:45 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 07/04/14 04:45 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 07/04/14 04:45 |            |
| Acetone                     | ug/kg | ND           | 100             | 07/04/14 04:45 |            |
| Acrolein                    | ug/kg | ND           | 100             | 07/04/14 04:45 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 07/04/14 04:45 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 07/04/14 04:45 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

METHOD BLANK: 1123224

Matrix: Solid

Associated Lab Samples: 5099765014, 5099765015, 5099765016

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 07/04/14 04:45 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 07/04/14 04:45 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 07/04/14 04:45 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 07/04/14 04:45 | N2         |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 07/04/14 04:45 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 07/04/14 04:45 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 07/04/14 04:45 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 07/04/14 04:45 |            |
| 4-Bromofluorobenzene (S)    | %     | 107          | 56-144          | 07/04/14 04:45 |            |
| Dibromofluoromethane (S)    | %     | 113          | 85-118          | 07/04/14 04:45 |            |
| Toluene-d8 (S)              | %     | 93           | 71-128          | 07/04/14 04:45 |            |

LABORATORY CONTROL SAMPLE: 1123225

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/kg | 50          | 51.1       | 102       | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 46.6       | 93        | 65-124       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 47.8       | 96        | 66-126       |            |
| 1,2,4-Trimethylbenzene    | ug/kg | 50          | 38.7       | 77        | 67-126       |            |
| 1,2-Dichloropropane       | ug/kg | 50          | 48.6       | 97        | 75-118       |            |
| Benzene                   | ug/kg | 50          | 52.0       | 104       | 74-119       |            |
| Chlorobenzene             | ug/kg | 50          | 47.2       | 94        | 77-122       |            |
| Chloroform                | ug/kg | 50          | 46.2       | 92        | 75-124       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

LABORATORY CONTROL SAMPLE: 1123225

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Ethylbenzene              | ug/kg | 50          | 46.1       | 92        | 72-123       |            |
| Isopropylbenzene (Cumene) | ug/kg | 50          | 48.3       | 97        | 65-123       |            |
| Methyl-tert-butyl ether   | ug/kg | 100         | 99.7       | 100       | 68-120       |            |
| Naphthalene               | ug/kg | 50          | 47.4       | 95        | 67-131       |            |
| Tetrachloroethene         | ug/kg | 50          | 47.5       | 95        | 72-126       |            |
| Toluene                   | ug/kg | 50          | 50.2       | 100       | 71-121       |            |
| Trichloroethene           | ug/kg | 50          | 50.5       | 101       | 74-123       |            |
| Vinyl chloride            | ug/kg | 50          | 54.0       | 108       | 55-128       |            |
| Xylene (Total)            | ug/kg | 150         | 142        | 95        | 66-124       |            |
| 4-Bromofluorobenzene (S)  | %.    |             |            | 95        | 56-144       |            |
| Dibromofluoromethane (S)  | %.    |             |            | 96        | 85-118       |            |
| Toluene-d8 (S)            | %.    |             |            | 104       | 71-128       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast  
Pace Project No.: 5099765

QC Batch: OEXT/36253 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
Associated Lab Samples: 5099765001, 5099765002, 5099765003, 5099765004, 5099765005, 5099765006, 5099765007, 5099765008, 5099765009, 5099765010, 5099765012, 5099765013

METHOD BLANK: 1118946 Matrix: Solid  
Associated Lab Samples: 5099765001, 5099765002, 5099765003, 5099765004, 5099765005, 5099765006, 5099765007, 5099765008, 5099765009, 5099765010, 5099765012, 5099765013

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND           | 100             | 07/01/14 17:03 |            |
| Tetrachloro-m-xylene (S) | %.    | 92           | 30-106          | 07/01/14 17:03 |            |

LABORATORY CONTROL SAMPLE: 1118947

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 167         | 130        | 78        | 42-100       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 167         | 135        | 81        | 40-106       |            |
| Tetrachloro-m-xylene (S) | %.    |             |            | 87        | 30-106       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1118948 1118949

| Parameter                | Units | MS                |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|--------------------------|-------|-------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
|                          |       | 5099765001 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      |
| PCB-1016 (Aroclor 1016)  | ug/kg | ND                | 186         | 185         | 138    | 139      | 74        | 75           | 10-145 | 1       | 20   |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND                | 186         | 185         | 133    | 131      | 71        | 71           | 16-132 | 1       | 20   |
| Tetrachloro-m-xylene (S) | %.    |                   |             |             |        |          | 83        | 82           | 30-106 |         |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

QC Batch: OEXT/36269 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
Associated Lab Samples: 5099765014, 5099765015

METHOD BLANK: 1120063 Matrix: Solid

Associated Lab Samples: 5099765014, 5099765015

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | ND           | 100             | 07/01/14 19:28 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | ND           | 100             | 07/01/14 19:28 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | ND           | 100             | 07/01/14 19:28 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | ND           | 100             | 07/01/14 19:28 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | ND           | 100             | 07/01/14 19:28 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | ND           | 100             | 07/01/14 19:28 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND           | 100             | 07/01/14 19:28 |            |
| Tetrachloro-m-xylene (S) | %     | 84           | 30-106          | 07/01/14 19:28 |            |

LABORATORY CONTROL SAMPLE: 1120064

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 167         | 137        | 82        | 42-100       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 167         | 147        | 88        | 40-106       |            |
| Tetrachloro-m-xylene (S) | %     |             |            | 85        | 30-106       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1120065 1120066

| Parameter                | Units | MS          |        | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual  |
|--------------------------|-------|-------------|--------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
|                          |       | Spike Conc. | Result | Spike Conc. | Result |          |           |              |        |         |       |
| PCB-1016 (Aroclor 1016)  | ug/kg | ND          | 187    | 188         | 141    | 114      | 75        | 61           | 10-145 | 21      | 20 R1 |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND          | 187    | 188         | 143    | 126      | 76        | 67           | 16-132 | 13      | 20    |
| Tetrachloro-m-xylene (S) | %     |             |        |             |        |          | 81        | 66           | 30-106 |         |       |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

QC Batch: OEXT/36332

Analysis Method: EPA 8082

QC Batch Method: EPA 3546

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 5099765011

METHOD BLANK: 1123362

Matrix: Solid

Associated Lab Samples: 5099765011

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | ND           | 100             | 07/08/14 14:32 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | ND           | 100             | 07/08/14 14:32 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | ND           | 100             | 07/08/14 14:32 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | ND           | 100             | 07/08/14 14:32 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | ND           | 100             | 07/08/14 14:32 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | ND           | 100             | 07/08/14 14:32 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | ND           | 100             | 07/08/14 14:32 |            |
| Tetrachloro-m-xylene (S) | %.    | 79           | 30-106          | 07/08/14 14:32 |            |

LABORATORY CONTROL SAMPLE: 1123363

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 167         | 113        | 68        | 42-100       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 167         | 122        | 73        | 40-106       |            |
| Tetrachloro-m-xylene (S) | %.    |             |            | 59        | 30-106       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

QC Batch: OEXT/36240 Analysis Method: EPA 8270  
 QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
 Associated Lab Samples: 5099765001, 5099765002, 5099765003, 5099765004, 5099765005, 5099765006, 5099765007, 5099765008,  
 5099765009, 5099765010, 5099765012, 5099765013, 5099765014, 5099765015

METHOD BLANK: 1117918 Matrix: Solid  
 Associated Lab Samples: 5099765001, 5099765002, 5099765003, 5099765004, 5099765005, 5099765006, 5099765007, 5099765008,  
 5099765009, 5099765010, 5099765012, 5099765013, 5099765014, 5099765015

| Parameter                       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------|-------|--------------|-----------------|----------------|------------|
| 2,4,5-Trichlorophenol           | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2,4,6-Trichlorophenol           | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2,4-Dichlorophenol              | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2,4-Dimethylphenol              | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2,4-Dinitrophenol               | ug/kg | ND           | 1600            | 06/27/14 17:12 |            |
| 2,4-Dinitrotoluene              | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2,6-Dinitrotoluene              | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2-Chloronaphthalene             | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2-Chlorophenol                  | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2-Methylnaphthalene             | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2-Methylphenol(o-Cresol)        | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2-Nitroaniline                  | ug/kg | ND           | 1600            | 06/27/14 17:12 |            |
| 2-Nitrophenol                   | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 3&4-Methylphenol(m&p Cresol)    | ug/kg | ND           | 660             | 06/27/14 17:12 |            |
| 3,3'-Dichlorobenzidine          | ug/kg | ND           | 660             | 06/27/14 17:12 |            |
| 3-Nitroaniline                  | ug/kg | ND           | 1600            | 06/27/14 17:12 |            |
| 4,6-Dinitro-2-methylphenol      | ug/kg | ND           | 1600            | 06/27/14 17:12 |            |
| 4-Bromophenylphenyl ether       | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 4-Chloro-3-methylphenol         | ug/kg | ND           | 660             | 06/27/14 17:12 |            |
| 4-Chloroaniline                 | ug/kg | ND           | 660             | 06/27/14 17:12 |            |
| 4-Chlorophenylphenyl ether      | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 4-Nitroaniline                  | ug/kg | ND           | 1600            | 06/27/14 17:12 |            |
| 4-Nitrophenol                   | ug/kg | ND           | 1600            | 06/27/14 17:12 |            |
| Acenaphthene                    | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Acenaphthylene                  | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Anthracene                      | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Benzo(a)anthracene              | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Benzo(a)pyrene                  | ug/kg | ND           | 170             | 06/27/14 17:12 |            |
| Benzo(b)fluoranthene            | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Benzo(g,h,i)perylene            | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Benzo(k)fluoranthene            | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Benzyl alcohol                  | ug/kg | ND           | 660             | 06/27/14 17:12 |            |
| bis(2-Chloroethoxy)methane      | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| bis(2-Chloroethyl) ether        | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| bis(2-Ethylhexyl)phthalate      | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| bis(2chloro1 methylethyl) ether | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Butylbenzylphthalate            | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Chrysene                        | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Di-n-butylphthalate             | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Di-n-octylphthalate             | ug/kg | ND           | 330             | 06/27/14 17:12 |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

METHOD BLANK: 1117918

Matrix: Solid

Associated Lab Samples: 5099765001, 5099765002, 5099765003, 5099765004, 5099765005, 5099765006, 5099765007, 5099765008, 5099765009, 5099765010, 5099765012, 5099765013, 5099765014, 5099765015

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/kg | ND           | 170             | 06/27/14 17:12 |            |
| Dibenzofuran               | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Diethylphthalate           | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Dimethylphthalate          | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Fluoranthene               | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Fluorene                   | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Hexachloro-1,3-butadiene   | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Hexachlorobenzene          | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Hexachlorocyclopentadiene  | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Hexachloroethane           | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Isophorone                 | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| N-Nitroso-di-n-propylamine | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| N-Nitrosodiphenylamine     | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Naphthalene                | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Nitrobenzene               | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Pentachlorophenol          | ug/kg | ND           | 1600            | 06/27/14 17:12 |            |
| Phenanthrene               | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Phenol                     | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| Pyrene                     | ug/kg | ND           | 330             | 06/27/14 17:12 |            |
| 2,4,6-Tribromophenol (S)   | %     | 90           | 16-122          | 06/27/14 17:12 |            |
| 2-Fluorobiphenyl (S)       | %     | 84           | 31-94           | 06/27/14 17:12 |            |
| 2-Fluorophenol (S)         | %     | 83           | 24-104          | 06/27/14 17:12 |            |
| Nitrobenzene-d5 (S)        | %     | 82           | 28-101          | 06/27/14 17:12 |            |
| p-Terphenyl-d14 (S)        | %     | 109          | 26-110          | 06/27/14 17:12 |            |
| Phenol-d5 (S)              | %     | 83           | 28-101          | 06/27/14 17:12 |            |

LABORATORY CONTROL SAMPLE: 1117919

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,4-Dinitrotoluene      | ug/kg | 3330        | 3230       | 97        | 39-103       |            |
| 2-Chlorophenol          | ug/kg | 3330        | 2770       | 83        | 38-96        |            |
| 2-Methylnaphthalene     | ug/kg | 3330        | 2770       | 83        | 36-94        |            |
| 4-Chloro-3-methylphenol | ug/kg | 3330        | 3040       | 91        | 38-104       |            |
| 4-Nitrophenol           | ug/kg | 3330        | 3050       | 92        | 34-104       |            |
| Acenaphthene            | ug/kg | 3330        | 2970       | 89        | 43-99        |            |
| Acenaphthylene          | ug/kg | 3330        | 2970       | 89        | 42-101       |            |
| Anthracene              | ug/kg | 3330        | 3170       | 95        | 46-107       |            |
| Benzo(a)anthracene      | ug/kg | 3330        | 3210       | 96        | 45-108       |            |
| Benzo(a)pyrene          | ug/kg | 3330        | 4520       | 136       | 47-113 L1    |            |
| Benzo(b)fluoranthene    | ug/kg | 3330        | 4490       | 135       | 41-110 L1    |            |
| Benzo(g,h,i)perylene    | ug/kg | 3330        | 4320       | 130       | 42-112 L1    |            |
| Benzo(k)fluoranthene    | ug/kg | 3330        | 4210       | 126       | 44-107 L1    |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

LABORATORY CONTROL SAMPLE: 1117919

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Chrysene                   | ug/kg | 3330        | 3280       | 98        | 43-103       |            |
| Dibenz(a,h)anthracene      | ug/kg | 3330        | 4430       | 133       | 43-110       | L1         |
| Fluoranthene               | ug/kg | 3330        | 3150       | 94        | 45-105       |            |
| Fluorene                   | ug/kg | 3330        | 3090       | 93        | 42-103       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 3330        | 4330       | 130       | 43-111       | L1         |
| N-Nitroso-di-n-propylamine | ug/kg | 3330        | 2900       | 87        | 37-96        |            |
| Naphthalene                | ug/kg | 3330        | 2660       | 80        | 44-100       |            |
| Pentachlorophenol          | ug/kg | 3330        | 2610       | 78        | 21-103       |            |
| Phenanthrene               | ug/kg | 3330        | 3060       | 92        | 44-104       |            |
| Phenol                     | ug/kg | 3330        | 2830       | 85        | 37-101       |            |
| Pyrene                     | ug/kg | 3330        | 3200       | 96        | 44-105       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 96        | 16-122       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 87        | 31-94        |            |
| 2-Fluorophenol (S)         | %     |             |            | 83        | 24-104       |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 82        | 28-101       |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 111       | 26-110       | S0         |
| Phenol-d5 (S)              | %     |             |            | 86        | 28-101       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117920 1117921

| Parameter                  | Units | 5099856002 |       | MS          |       | MSD    |        | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|------------|-------|-------------|-------|--------|--------|----------|-----------|--------------|-----|---------|------|
|                            |       | Result     | Conc. | Spike Conc. | Conc. | Result | Result |          |           |              |     |         |      |
| 2,4-Dinitrotoluene         | ug/kg | ND         | 3810  | 3810        | 3810  | 2970   | 3800   | 78       | 100       | 15-102       | 25  | 20      | R1   |
| 2-Chlorophenol             | ug/kg | ND         | 3810  | 3810        | 3810  | 2690   | 3210   | 71       | 84        | 22-96        | 18  | 20      |      |
| 2-Methylnaphthalene        | ug/kg | ND         | 3810  | 3810        | 3810  | 2710   | 3210   | 71       | 84        | 14-107       | 17  | 20      |      |
| 4-Chloro-3-methylphenol    | ug/kg | ND         | 3810  | 3810        | 3810  | 2910   | 3610   | 77       | 95        | 21-105       | 21  | 20      | R1   |
| 4-Nitrophenol              | ug/kg | ND         | 3810  | 3810        | 3810  | 3030   | 3840   | 80       | 101       | 12-107       | 23  | 20      | R1   |
| Acenaphthene               | ug/kg | ND         | 3810  | 3810        | 3810  | 2860   | 3460   | 75       | 91        | 19-110       | 19  | 20      |      |
| Acenaphthylene             | ug/kg | ND         | 3810  | 3810        | 3810  | 2750   | 3350   | 72       | 88        | 21-106       | 19  | 20      |      |
| Anthracene                 | ug/kg | ND         | 3810  | 3810        | 3810  | 2780   | 3410   | 73       | 90        | 22-112       | 20  | 20      |      |
| Benzo(a)anthracene         | ug/kg | ND         | 3810  | 3810        | 3810  | 2730   | 3470   | 72       | 91        | 13-116       | 24  | 20      | R1   |
| Benzo(a)pyrene             | ug/kg | ND         | 3810  | 3810        | 3810  | 2690   | 3400   | 71       | 89        | 11-119       | 23  | 20      | R1   |
| Benzo(b)fluoranthene       | ug/kg | ND         | 3810  | 3810        | 3810  | 2580   | 3140   | 68       | 83        | 10-126       | 20  | 20      |      |
| Benzo(g,h,i)perylene       | ug/kg | ND         | 3810  | 3810        | 3810  | 2330   | 3030   | 61       | 80        | 10-114       | 26  | 20      | R1   |
| Benzo(k)fluoranthene       | ug/kg | ND         | 3810  | 3810        | 3810  | 2700   | 3450   | 71       | 91        | 10-117       | 25  | 20      | R1   |
| Chrysene                   | ug/kg | ND         | 3810  | 3810        | 3810  | 2820   | 3540   | 74       | 93        | 14-107       | 23  | 20      | R1   |
| Dibenz(a,h)anthracene      | ug/kg | ND         | 3810  | 3810        | 3810  | 2660   | 3320   | 70       | 87        | 10-119       | 22  | 20      | R1   |
| Fluoranthene               | ug/kg | ND         | 3810  | 3810        | 3810  | 2900   | 3610   | 76       | 95        | 17-110       | 22  | 20      | R1   |
| Fluorene                   | ug/kg | ND         | 3810  | 3810        | 3810  | 3120   | 3890   | 82       | 102       | 17-115       | 22  | 20      | R1   |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND         | 3810  | 3810        | 3810  | 2480   | 3140   | 65       | 82        | 11-111       | 23  | 20      | R1   |
| N-Nitroso-di-n-propylamine | ug/kg | ND         | 3810  | 3810        | 3810  | 2790   | 3370   | 73       | 88        | 18-103       | 19  | 20      |      |
| Naphthalene                | ug/kg | ND         | 3810  | 3810        | 3810  | 2660   | 3130   | 70       | 82        | 16-102       | 16  | 20      |      |
| Pentachlorophenol          | ug/kg | ND         | 3810  | 3810        | 3810  | 2530   | 3430   | 66       | 90        | 10-100       | 30  | 20      | R1   |
| Phenanthrene               | ug/kg | ND         | 3810  | 3810        | 3810  | 2820   | 3520   | 74       | 92        | 10-128       | 22  | 20      | R1   |
| Phenol                     | ug/kg | ND         | 3810  | 3810        | 3810  | 2670   | 3210   | 70       | 84        | 22-97        | 18  | 20      |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

| Parameter                | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117920 |                      | 1117921               |              | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
|--------------------------|-------|--|----------------------|-----------------------|--------------|-------------|--------------|-----------------|------------|-----|------|
|                          |       | 5099856002<br>Result                           | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |             |              |                 |            |     |      |
| Pyrene                   | ug/kg | ND   | 3810                 | 3810                  | 2940         | 3600        | 77           | 95              | 10-123     | 20  | 20   |
| 2,4,6-Tribromophenol (S) | %.    |  |                      |                       |              |             | 75           | 95              | 16-122     |     |      |
| 2-Fluorobiphenyl (S)     | %.    |  |                      |                       |              |             | 71           | 84              | 31-94      |     |      |
| 2-Fluorophenol (S)       | %.    |  |                      |                       |              |             | 72           | 85              | 24-104     |     |      |
| Nitrobenzene-d5 (S)      | %.    |  |                      |                       |              |             | 74           | 86              | 26-98      |     |      |
| p-Terphenyl-d14 (S)      | %.    |  |                      |                       |              |             | 87           | 104             | 26-110     |     |      |
| Phenol-d5 (S)            | %.    |  |                      |                       |              |             | 72           | 87              | 28-101     |     |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

QC Batch: OEXT/36282

Analysis Method: EPA 8270

QC Batch Method: EPA 3546

Analysis Description: 8270 Solid MSSV Microwave Short Spike

Associated Lab Samples: 5099765011

METHOD BLANK: 1120686

Matrix: Solid

Associated Lab Samples: 5099765011

| Parameter                       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------|-------|--------------|-----------------|----------------|------------|
| 2,4,5-Trichlorophenol           | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2,4,6-Trichlorophenol           | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2,4-Dichlorophenol              | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2,4-Dimethylphenol              | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2,4-Dinitrophenol               | ug/kg | ND           | 1600            | 07/01/14 15:12 |            |
| 2,4-Dinitrotoluene              | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2,6-Dinitrotoluene              | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2-Chloronaphthalene             | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2-Chlorophenol                  | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2-Methylnaphthalene             | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2-Methylphenol(o-Cresol)        | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2-Nitroaniline                  | ug/kg | ND           | 1600            | 07/01/14 15:12 |            |
| 2-Nitrophenol                   | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 3&4-Methylphenol(m&p Cresol)    | ug/kg | ND           | 660             | 07/01/14 15:12 |            |
| 3,3'-Dichlorobenzidine          | ug/kg | ND           | 660             | 07/01/14 15:12 |            |
| 3-Nitroaniline                  | ug/kg | ND           | 1600            | 07/01/14 15:12 |            |
| 4,6-Dinitro-2-methylphenol      | ug/kg | ND           | 1600            | 07/01/14 15:12 |            |
| 4-Bromophenylphenyl ether       | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 4-Chloro-3-methylphenol         | ug/kg | ND           | 660             | 07/01/14 15:12 |            |
| 4-Chloroaniline                 | ug/kg | ND           | 660             | 07/01/14 15:12 |            |
| 4-Chlorophenylphenyl ether      | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 4-Nitroaniline                  | ug/kg | ND           | 1600            | 07/01/14 15:12 |            |
| 4-Nitrophenol                   | ug/kg | ND           | 1600            | 07/01/14 15:12 |            |
| Acenaphthene                    | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Acenaphthylene                  | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Anthracene                      | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Benzo(a)anthracene              | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Benzo(a)pyrene                  | ug/kg | ND           | 170             | 07/01/14 15:12 |            |
| Benzo(b)fluoranthene            | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Benzo(g,h,i)perylene            | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Benzo(k)fluoranthene            | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Benzyl alcohol                  | ug/kg | ND           | 660             | 07/01/14 15:12 |            |
| bis(2-Chloroethoxy)methane      | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| bis(2-Chloroethyl) ether        | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| bis(2-Ethylhexyl)phthalate      | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| bis(2chloro1 methylethyl) ether | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Butylbenzylphthalate            | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Chrysene                        | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Di-n-butylphthalate             | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Di-n-octylphthalate             | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Dibenz(a,h)anthracene           | ug/kg | ND           | 170             | 07/01/14 15:12 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

METHOD BLANK: 1120686

Matrix: Solid

Associated Lab Samples: 5099765011

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Dibenzofuran               | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Diethylphthalate           | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Dimethylphthalate          | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Fluoranthene               | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Fluorene                   | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Hexachloro-1,3-butadiene   | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Hexachlorobenzene          | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Hexachlorocyclopentadiene  | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Hexachloroethane           | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Isophorone                 | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| N-Nitroso-di-n-propylamine | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| N-Nitrosodiphenylamine     | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Naphthalene                | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Nitrobenzene               | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Pentachlorophenol          | ug/kg | ND           | 1600            | 07/01/14 15:12 |            |
| Phenanthrene               | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Phenol                     | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| Pyrene                     | ug/kg | ND           | 330             | 07/01/14 15:12 |            |
| 2,4,6-Tribromophenol (S)   | %     | 73           | 16-122          | 07/01/14 15:12 |            |
| 2-Fluorobiphenyl (S)       | %     | 72           | 31-94           | 07/01/14 15:12 |            |
| 2-Fluorophenol (S)         | %     | 71           | 24-104          | 07/01/14 15:12 |            |
| Nitrobenzene-d5 (S)        | %     | 69           | 28-101          | 07/01/14 15:12 |            |
| p-Terphenyl-d14 (S)        | %     | 98           | 26-110          | 07/01/14 15:12 |            |
| Phenol-d5 (S)              | %     | 74           | 28-101          | 07/01/14 15:12 |            |

LABORATORY CONTROL SAMPLE: 1120687

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,4-Dinitrotoluene      | ug/kg | 3330        | 2530       | 76        | 39-103       |            |
| 2-Chlorophenol          | ug/kg | 3330        | 2260       | 68        | 38-96        |            |
| 2-Methylnaphthalene     | ug/kg | 3330        | 2390       | 72        | 36-94        |            |
| 4-Chloro-3-methylphenol | ug/kg | 3330        | 2490       | 75        | 38-104       |            |
| 4-Nitrophenol           | ug/kg | 3330        | 2450       | 73        | 34-104       |            |
| Acenaphthene            | ug/kg | 3330        | 2540       | 76        | 43-99        |            |
| Acenaphthylene          | ug/kg | 3330        | 2450       | 73        | 42-101       |            |
| Anthracene              | ug/kg | 3330        | 2560       | 77        | 46-107       |            |
| Benzo(a)anthracene      | ug/kg | 3330        | 2580       | 77        | 45-108       |            |
| Benzo(a)pyrene          | ug/kg | 3330        | 2720       | 82        | 47-113       |            |
| Benzo(b)fluoranthene    | ug/kg | 3330        | 2340       | 70        | 41-110       |            |
| Benzo(g,h,i)perylene    | ug/kg | 3330        | 2620       | 79        | 42-112       |            |
| Benzo(k)fluoranthene    | ug/kg | 3330        | 2860       | 86        | 44-107       |            |
| Chrysene                | ug/kg | 3330        | 2690       | 81        | 43-103       |            |
| Dibenz(a,h)anthracene   | ug/kg | 3330        | 2690       | 81        | 43-110       |            |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

LABORATORY CONTROL SAMPLE: 1120687

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Fluoranthene               | ug/kg | 3330        | 2730       | 82        | 45-105       |            |
| Fluorene                   | ug/kg | 3330        | 2930       | 88        | 42-103       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 3330        | 2630       | 79        | 43-111       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 3330        | 2390       | 72        | 37-96        |            |
| Naphthalene                | ug/kg | 3330        | 2250       | 68        | 44-100       |            |
| Pentachlorophenol          | ug/kg | 3330        | 2300       | 69        | 21-103       |            |
| Phenanthrene               | ug/kg | 3330        | 2630       | 79        | 44-104       |            |
| Phenol                     | ug/kg | 3330        | 2380       | 71        | 37-101       |            |
| Pyrene                     | ug/kg | 3330        | 2770       | 83        | 44-105       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 74        | 16-122       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 72        | 31-94        |            |
| 2-Fluorophenol (S)         | %     |             |            | 70        | 24-104       |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 68        | 28-101       |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 94        | 26-110       |            |
| Phenol-d5 (S)              | %     |             |            | 73        | 28-101       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1120688 1120689

| Parameter                  | Units | 50100101001 |             | MS          |           | MSD        |    | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|-------------|-------------|-----------|------------|----|----------|-----------|--------------|-----|---------|------|
|                            |       | Result      | Spike Conc. | Spike Conc. | MS Result | MSD Result |    |          |           |              |     |         |      |
| 2,4-Dinitrotoluene         | ug/kg | ND          | 4150        | 4160        | 2860      | 2610       | 69 | 63       | 15-102    | 9            | 20  |         |      |
| 2-Chlorophenol             | ug/kg | ND          | 4150        | 4160        | 2380      | 2620       | 57 | 63       | 22-96     | 9            | 20  |         |      |
| 2-Methylnaphthalene        | ug/kg | 752         | 4150        | 4160        | 3510      | 3200       | 67 | 59       | 14-107    | 9            | 20  |         |      |
| 4-Chloro-3-methylphenol    | ug/kg | ND          | 4150        | 4160        | 2580      | 2770       | 62 | 67       | 21-105    | 7            | 20  |         |      |
| 4-Nitrophenol              | ug/kg | ND          | 4150        | 4160        | 3080      | 2960       | 74 | 71       | 12-107    | 4            | 20  |         |      |
| Acenaphthene               | ug/kg | ND          | 4150        | 4160        | 3060      | 2930       | 74 | 70       | 19-110    | 4            | 20  |         |      |
| Acenaphthylene             | ug/kg | ND          | 4150        | 4160        | 2980      | 2860       | 72 | 69       | 21-106    | 4            | 20  |         |      |
| Anthracene                 | ug/kg | ND          | 4150        | 4160        | 2820      | 2810       | 68 | 68       | 22-112    | 0            | 20  |         |      |
| Benzo(a)anthracene         | ug/kg | ND          | 4150        | 4160        | 2800      | 2830       | 66 | 67       | 13-116    | 1            | 20  |         |      |
| Benzo(a)pyrene             | ug/kg | ND          | 4150        | 4160        | 2810      | 2820       | 67 | 67       | 11-119    | 0            | 20  |         |      |
| Benzo(b)fluoranthene       | ug/kg | ND          | 4150        | 4160        | 2640      | 2550       | 63 | 60       | 10-126    | 4            | 20  |         |      |
| Benzo(g,h,i)perylene       | ug/kg | ND          | 4150        | 4160        | 2710      | 2700       | 65 | 65       | 10-114    | 0            | 20  |         |      |
| Benzo(k)fluoranthene       | ug/kg | ND          | 4150        | 4160        | 2720      | 2870       | 64 | 68       | 10-117    | 5            | 20  |         |      |
| Chrysene                   | ug/kg | ND          | 4150        | 4160        | 2860      | 2840       | 67 | 66       | 14-107    | 1            | 20  |         |      |
| Dibenz(a,h)anthracene      | ug/kg | ND          | 4150        | 4160        | 2770      | 2790       | 67 | 67       | 10-119    | 1            | 20  |         |      |
| Fluoranthene               | ug/kg | ND          | 4150        | 4160        | 3130      | 3120       | 73 | 72       | 17-110    | 0            | 20  |         |      |
| Fluorene                   | ug/kg | ND          | 4150        | 4160        | 3510      | 3240       | 85 | 78       | 17-115    | 8            | 20  |         |      |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND          | 4150        | 4160        | 2700      | 2710       | 65 | 65       | 11-111    | 0            | 20  |         |      |
| N-Nitroso-di-n-propylamine | ug/kg | ND          | 4150        | 4160        | 2670      | 2920       | 64 | 70       | 18-103    | 9            | 20  |         |      |
| Naphthalene                | ug/kg | 439         | 4150        | 4160        | 2980      | 2910       | 61 | 59       | 16-102    | 2            | 20  |         |      |
| Pentachlorophenol          | ug/kg | ND          | 4150        | 4160        | 2840      | 2790       | 69 | 67       | 10-100    | 2            | 20  |         |      |
| Phenanthrene               | ug/kg | ND          | 4150        | 4160        | 3100      | 2990       | 69 | 66       | 10-128    | 4            | 20  |         |      |
| Phenol                     | ug/kg | ND          | 4150        | 4160        | 2520      | 2690       | 61 | 65       | 22-97     | 6            | 20  |         |      |
| Pyrene                     | ug/kg | ND          | 4150        | 4160        | 3080      | 3150       | 72 | 73       | 10-123    | 2            | 20  |         |      |
| 2,4,6-Tribromophenol (S)   | %     |             |             |             |           |            | 72 | 69       | 16-122    |              |     |         |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast

Pace Project No.: 5099765

| Parameter            | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1120688 |                      | 1120689               |              | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
|----------------------|-------|--|----------------------|-----------------------|--------------|-------------|--------------|-----------------|------------|-----|------|
|                      |       | 50100101001<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |             |              |                 |            |     |      |
| 2-Fluorobiphenyl (S) | %.    |  |                      |                       |              | 70          | 67           | 31-94           |            |     |      |
| 2-Fluorophenol (S)   | %.    |  |                      |                       |              | 62          | 65           | 24-104          |            |     |      |
| Nitrobenzene-d5 (S)  | %.    |  |                      |                       |              | 62          | 64           | 26-98           |            |     |      |
| p-Terphenyl-d14 (S)  | %.    |  |                      |                       |              | 86          | 84           | 26-110          |            |     |      |
| Phenol-d5 (S)        | %.    |  |                      |                       |              | 63          | 67           | 28-101          |            |     |      |

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### QUALITY CONTROL DATA

Project: Sibley-Accucast  
Pace Project No.: 5099765

QC Batch: WET/16676      Analysis Method: EPA 7196A  
QC Batch Method: EPA 3060A      Analysis Description: 7196 Chromium, Hexavalent  
Associated Lab Samples: 5099765007, 5099765011

METHOD BLANK: 1128073      Matrix: Solid  
Associated Lab Samples: 5099765007, 5099765011

| Parameter            | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Chromium, Hexavalent | mg/kg | ND           | 2.0             | 07/17/14 09:30 |            |

LABORATORY CONTROL SAMPLE: 1128074

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | 958         | 950        | 99        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1128075      1128076

| Parameter            | Units | 5099765007 Result | MS          | MSD         | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|-------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                      |       |                   | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |      |
| Chromium, Hexavalent | mg/kg | ND                | 1070        | 1030        | 1030      | 978        | 97       | 95        | 75-125       | 5   | 20      |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1128077      1128078

| Parameter            | Units | 5099765007 Result | MS          | MSD         | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual  |
|----------------------|-------|-------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
|                      |       |                   | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |       |
| Chromium, Hexavalent | mg/kg | ND                | 40.8        | 41.5        | 6.7       | 18.7       | 16       | 45        | 75-125       | 95  | 20      | M0,R1 |

SAMPLE DUPLICATE: 1128079

| Parameter            | Units | 10273319006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------------|-------|--------------------|------------|-----|---------|------------|
| Chromium, Hexavalent | mg/kg | ND                 | ND         |     | 20      |            |

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## QUALIFIERS

Project: Sibley-Accucast  
Pace Project No.: 5099765

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

1d Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 07/02/14

C9 Common Laboratory Contaminant.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

N2 The lab does not hold TNI accreditation for this parameter.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

RS The RPD value in one of the constituent analytes was outside the control limits.

S0 Surrogate recovery outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Sibley-Accucast  
Pace Project No.: 5099765

| Lab ID     | Sample ID      | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|------------|----------------|-----------------|------------|-------------------|------------------|
| 5099765001 | P-10 (2-4)     | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765002 | P-10 (12-14)   | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765003 | TMW-10 (3-5)   | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765004 | TMW-10 (10-12) | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765005 | TMW-2 (3-5)    | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765006 | TMW-2 (13-15)  | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765007 | P-1 (1-3)      | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765008 | P-1 (18-20)    | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765009 | TMW-1 (1-3)    | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765010 | TMW-1 (11-13)  | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765011 | TMW-8 (1-3)    | EPA 3546        | OEXT/36332 | EPA 8082          | GCSV/12810       |
| 5099765012 | TMW-8 (10-12)  | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765013 | P-2 (1-3)      | EPA 3546        | OEXT/36253 | EPA 8082          | GCSV/12768       |
| 5099765014 | P-2 (18-20)    | EPA 3546        | OEXT/36269 | EPA 8082          | GCSV/12770       |
| 5099765015 | Subsurf-Dup    | EPA 3546        | OEXT/36269 | EPA 8082          | GCSV/12770       |
| 5099765001 | P-10 (2-4)     | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765002 | P-10 (12-14)   | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765003 | TMW-10 (3-5)   | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765004 | TMW-10 (10-12) | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765005 | TMW-2 (3-5)    | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765006 | TMW-2 (13-15)  | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765007 | P-1 (1-3)      | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765008 | P-1 (18-20)    | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765009 | TMW-1 (1-3)    | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765010 | TMW-1 (11-13)  | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765011 | TMW-8 (1-3)    | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765012 | TMW-8 (10-12)  | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765013 | P-2 (1-3)      | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765014 | P-2 (18-20)    | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765015 | Subsurf-Dup    | EPA 3050        | MPRP/13645 | EPA 6010          | ICP/15913        |
| 5099765001 | P-10 (2-4)     | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765002 | P-10 (12-14)   | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765003 | TMW-10 (3-5)   | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765004 | TMW-10 (10-12) | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765005 | TMW-2 (3-5)    | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765006 | TMW-2 (13-15)  | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765007 | P-1 (1-3)      | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765008 | P-1 (18-20)    | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765009 | TMW-1 (1-3)    | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765010 | TMW-1 (11-13)  | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765011 | TMW-8 (1-3)    | EPA 3546        | OEXT/36282 | EPA 8270          | MSSV/15623       |
| 5099765012 | TMW-8 (10-12)  | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765013 | P-2 (1-3)      | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765014 | P-2 (18-20)    | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |
| 5099765015 | Subsurf-Dup    | EPA 3546        | OEXT/36240 | EPA 8270          | MSSV/15586       |

**REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sibley-Accucast

Pace Project No.: 5099765

| Lab ID     | Sample ID      | QC Batch Method                | QC Batch  | Analytical Method | Analytical Batch |
|------------|----------------|--------------------------------|-----------|-------------------|------------------|
| 5099765001 | P-10 (2-4)     | EPA 8260                       | MSV/66435 |                   |                  |
| 5099765002 | P-10 (12-14)   | EPA 8260                       | MSV/66435 |                   |                  |
| 5099765003 | TMW-10 (3-5)   | EPA 8260                       | MSV/66435 |                   |                  |
| 5099765004 | TMW-10 (10-12) | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765005 | TMW-2 (3-5)    | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765006 | TMW-2 (13-15)  | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765007 | P-1 (1-3)      | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765008 | P-1 (18-20)    | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765009 | TMW-1 (1-3)    | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765010 | TMW-1 (11-13)  | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765011 | TMW-8 (1-3)    | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765012 | TMW-8 (10-12)  | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765013 | P-2 (1-3)      | EPA 8260                       | MSV/66492 |                   |                  |
| 5099765014 | P-2 (18-20)    | EPA 8260                       | MSV/66496 |                   |                  |
| 5099765015 | Subsurf-Dup    | EPA 8260                       | MSV/66496 |                   |                  |
| 5099765016 | Trip Blank-2   | EPA 8260                       | MSV/66496 |                   |                  |
| 5099765001 | P-10 (2-4)     | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765002 | P-10 (12-14)   | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765003 | TMW-10 (3-5)   | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765004 | TMW-10 (10-12) | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765005 | TMW-2 (3-5)    | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765006 | TMW-2 (13-15)  | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765007 | P-1 (1-3)      | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765008 | P-1 (18-20)    | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765009 | TMW-1 (1-3)    | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765010 | TMW-1 (11-13)  | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765011 | TMW-8 (1-3)    | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765012 | TMW-8 (10-12)  | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765013 | P-2 (1-3)      | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765014 | P-2 (18-20)    | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765015 | Subsurf-Dup    | ASTM D2974-87                  | PMST/9619 |                   |                  |
| 5099765007 | P-1 (1-3)      | EPA 3060A                      | WET/16676 | EPA 7196A         | WET/16725        |
| 5099765011 | TMW-8 (1-3)    | EPA 3060A                      | WET/16676 | EPA 7196A         | WET/16725        |
| 5099765007 | P-1 (1-3)      | Trivalent Chromium Calculation | WET/16615 |                   |                  |
| 5099765011 | TMW-8 (1-3)    | Trivalent Chromium Calculation | WET/16615 |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

|  |  |   |  |
|--|--|---|--|
| <b>Section A</b><br>Required Client Information: | Company: <u>Werner Bros Construction</u> | <b>Section B</b><br>Required Project Information: | Report To: <u>Steve Starford</u>   |
| Address: <u>7121 Graye Rd.</u>                   | Copy To: <u>shany@wernerbros.com</u>     | Invoice Information:                              | Attention: <u>Lyle Cabole</u>  |
| Email To: <u>SSenford@wernerbros.com</u>         | Purchase Order No.:                      | Company Name: <u>Pace Analytical</u>              | REGULATORY AGENCY  |
| Phone: <u>574-271-3547</u>                       | Project Name: <u>Sibley - Accu-cast</u>  | Address: <u>7726 Noller Rd.</u>                   | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER |
| Requested Due Date (TAT):                        | Project Number: <u>2339-356-03-00</u>    | Pace Quote Reference:                             | <input type="checkbox"/> UST <input type="checkbox"/> RCRA   |
|  |  | Pace Project Manager:                             | Site Location STATE: <u>IN</u>   |
|  |  | Pace Profile #:                                   |  |

Page: 1 of 2

1803913

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX CODE<br>Drinking Water<br>Waste Water<br>Product<br>Soil/Solid<br>Oil<br>Wipe<br>Air<br>Tissue<br>Other | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED       |                    | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives                  |                  | Analysis Test ↑ | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Face Project No./ Lab I.D. |
|--------|--|--|-----------------------------|-----------------|--------------------|---------------------------|-----------------|--------------------------------|------------------|-----------------|-----------------------------------|-------------------------|----------------------------|
|        |  |  |                             | COMPOSITE START | COMPOSITE END/GRAB |                           |                 | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> |                 |                                   |                         |                            |
| 1      | P-10 (2-4)                               |  | S/C                         | 6/23 15:25      |                    | 6                         |                 |                                |                  | X               |                                   |                         | 5099765                    |
| 2      | P-10 (12-14)                             |  | S/C                         | 6/23 15:50      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 3      | TMW-10 (3-5)                             |  | S/L                         | 6/23 14:45      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 4      | TMW-10 (10-12)                           |  | S/L                         | 6/23 14:55      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 5      | TMW-2 (3-5)                              |  | S/L                         | 6/23 13:15      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 6      | TMW-2 (13-15)                            |  | S/L                         | 6/23 13:30      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 7      | P-1 (1-3)                                |  | S/L                         | 6/23 12:35      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 8      | P-1 (18-20)                              |  | S/L                         | 6/23 12:50      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 9      | TMW-1 (1-3)                              |  | S/L                         | 6/23 11:45      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 10     | TMW-1 (11-13)                            |  | S/L                         | 6/23 12:00      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 11     | TMW-8 (1-3)                              |  | S/L                         | 6/23 10:40      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |
| 12     | TMW-1 (10-12)                            |  | S/L                         | 6/23 11:00      |                    | 6                         |                 |                                |                  | X               |                                   |                         |                            |

| ADDITIONAL COMMENTS   | RELINQUISHED BY / AFFILIATION | DATE | TIME  | ACCEPTED BY / AFFILIATION | DATE    | TIME  | SAMPLE CONDITIONS |
|---|-------------------------------|------|-------|---------------------------|---------|-------|-------------------|
| Hex Cr analysis only  | Alex Huang/Werner Bros        | 6/23 | 19:40 | Caroline Rocco            | 6/24/12 | 10:22 | Y                 |
| None if authorized by Project Manager. Please Retain Samples. |                               |      |       |                           |         |       | Y                 |
|   |                               |      |       |                           |         |       | Y                 |

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Alex Huang  
 SIGNATURE of SAMPLER: Alex Huang

DATE Signed (MM/DD/YY): 06/23/14

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



|  |  |   |                                      |  |   |
|--|--|---|--------------------------------------|--|---|
| <b>Section A</b><br>Required Client Information: |  | <b>Section B</b><br>Required Project Information: |                                      | <b>Section C</b><br>Invoice Information: |   |
| Company: <i>Becher Bros Consignment</i>          | Report To: <i>Steve Stamford</i>       | Attention: <i>Lyle Coble</i>                      | Company Name: <i>Pace Analytical</i> | Page: <i>2</i> of <i>2</i>               | REGULATORY AGENCY<br><input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> RCRA <input type="checkbox"/> UST <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> OTHER<br>Site Location STATE: <i>IA</i> |
| Address: <i>7121 Grape Rd. Granger IA 48530</i>  | Copy To: <i>aherny@wenvrboos.com</i>   | Company Address: <i>7726 Moller Rd.</i>           | Address: <i>7726 Moller Rd.</i>      | 1803914                                  |   |
| Email To: <i>sstamford@wenvrboos.com</i>         | Purchase Order No.:                    | Pace Quote Reference:                             | Pace Project Manager:                |  |   |
| Phone: <i>514-271-3847</i>                       | Project Name: <i>Sibley - Accucast</i> | Pace Profile #:                                   |                                      |  |   |
| Requested Due Date/TAT:                          | Project Number: <i>2339-356-03-00</i>  |   |                                      |  |   |

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | MATERIAL CODE | COLLECTED       |                    | SAMPLE TYPE (G-GRAB C-COMP) | MATRIX CODE (see valid codes to left) | # OF CONTAINERS | Preservatives | Analysis Test ↑ | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|--|-------------------------------|---------------|-----------------|--------------------|-----------------------------|---------------------------------------|-----------------|---------------|-----------------|-----------------------------------|-------------------------|----------------------------|
|        |  |                               |               | COMPOSITE START | COMPOSITE END/GRAB |                             |                                       |                 |               |                 |                                   |                         |                            |
| 1      | P-2 (1-3)                                |                               | SLG           | DATE            | TIME               | DATE                        | TIME                                  | 6/23            | 10:10         | X               | X                                 | X                       | 5099765                    |
| 2      | P-2 (10-20)                              |                               | SLG           | DATE            | TIME               | DATE                        | TIME                                  | 6/23            | 10:30         | X               | X                                 | X                       | 5099765                    |
| 3      | Subsurf - Dup                            |                               | SLG           | DATE            | TIME               | DATE                        | TIME                                  | 6/23            | X             | X               | X                                 | X                       | 5099765                    |
| 4      | TIP Blank - 2                            |                               | OT            | DATE            | TIME               | DATE                        | TIME                                  | X               | X             | X               | X                                 | X                       | 5099765                    |
| 5      |  |                               |               |                 |                    |                             |                                       |                 |               |                 |                                   |                         |                            |
| 6      |  |                               |               |                 |                    |                             |                                       |                 |               |                 |                                   |                         |                            |
| 7      |  |                               |               |                 |                    |                             |                                       |                 |               |                 |                                   |                         |                            |
| 8      |  |                               |               |                 |                    |                             |                                       |                 |               |                 |                                   |                         |                            |
| 9      |  |                               |               |                 |                    |                             |                                       |                 |               |                 |                                   |                         |                            |
| 10     |  |                               |               |                 |                    |                             |                                       |                 |               |                 |                                   |                         |                            |
| 11     |  |                               |               |                 |                    |                             |                                       |                 |               |                 |                                   |                         |                            |
| 12     |  |                               |               |                 |                    |                             |                                       |                 |               |                 |                                   |                         |                            |

| ADDITIONAL COMMENTS   | RELINQUISHED BY / AFFILIATION | DATE | TIME  | ACCEPTED BY / AFFILIATION | DATE    | TIME  | SAMPLE CONDITIONS |
|---|-------------------------------|------|-------|---------------------------|---------|-------|-------------------|
| PLEASE HOLD samples for Hex Cr analysis until directed by Steve Stamford. | Alex Herny                    | 6/23 | 10:40 | Carlie Peacock            | 6-24-14 | 12:10 | Y Y Y Y           |
|   |                               |      |       |                           |         |       |                   |
|   |                               |      |       |                           |         |       |                   |
|   |                               |      |       |                           |         |       |                   |

|   |             |         |               |                |
|---|-------------|---------|---------------|----------------|
| Temp in °C                                | Received on | Custody | Sealed Cooler | Samples Intact |
|   |             |         |               |                |
| SAMPLER NAME AND SIGNATURE                |             |         |               |                |
| PRINT Name of SAMPLER: <i>Alex Herny</i>  |             |         |               |                |
| SIGNATURE of SAMPLER: <i>Alex Herny</i>   |             |         |               |                |
| DATE Signed (MM/DD/YYYY): <i>06/23/14</i> |             |         |               |                |

**Sample Condition Upon Receipt**



Client Name: Weaver Boas Project # 5099765

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: 8055 5144 5108-7800 0884 5038

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Date/Time 5035A kits placed in freezer  
6-24-14 12:30

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Cooler Temperature 2.2°C, 1.2°C Ice Visible in Sample Containers:  yes  no

Temp should be above freezing to 6°C Comments: \_\_\_\_\_ Date and Initials of person examining contents: CAP 6-24-14

|   |  |   |
|---|--|---|
| Chain of Custody Present:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.  |
| Chain of Custody Filled Out:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.  |
| Chain of Custody Relinquished:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.  |
| Sampler Name & Signature on COC:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.  |
| Short Hold Time Analysis (<72hr):   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. <u>Tema cover</u>  |
| Rush Turn Around Time Requested:  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6.  |
| Containers Intact:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7.  |
| Sample Labels match COC:<br>-Includes date/time/ID/Analysis   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. <u>Sample #3</u><br><u>Seal = P-10(3-5) 14:45, COC = TMW-10(3-5) 14:45</u> |
| All containers needing acid/base pres. have been checked?<br>exceptions: VOA, coliform, TOC, O&G                                | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 9. (Circle) HNO3 H2SO4 NaOH HCl   |
| All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted. |  |   |
| Headspace in VOA Vials (>6mm):  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10.   |
| Trip Blank Present:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. <u>Tema Trip</u>  |
| Trip Blank Custody Seals Present  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |   |
| Project Manager Review  |  |   |
| Samples Arrived within Hold Time:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.   |
| Sufficient Volume:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13.   |
| Correct Containers Used:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 14.   |

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature] Date: 6-24-14

Sample Container Count



CLIENT: Weaver Boos

COC PAGE 1 of 2  
 COC ID# 1863913

Project # 509765

*TPB*

| Sample Line Item | DG9H | AG1U | WG9H | AG0U | R | AG0U | 100mL unpreserved amber glass | BP1N | 1 liter HNO3 plastic | DG9P | 40mL TSP amber vial | Comments |
|------------------|------|------|------|------|---|------|-------------------------------|------|----------------------|------|---------------------|----------|
| 1                |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 2                |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 3                |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 4                |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 5                |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 6                |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 7                |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 8                |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 9                |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 10               |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 11               |      |      |      |      |   |      |                               |      |                      |      |                     |          |
| 12               |      |      |      |      |   |      |                               |      |                      |      |                     |          |

| Container Codes | DG9H | 40mL HCL amber vial             | AG0U | 100mL unpreserved amber glass      | BP1N | 1 liter HNO3 plastic         | DG9P | 40mL TSP amber vial         |
|-----------------|------|---------------------------------|------|------------------------------------|------|------------------------------|------|-----------------------------|
|                 | AG1U | 1 liter unpreserved amber glass | AG1H | 1 liter HCL amber glass            | BP1S | 1 liter H2SO4 plastic        | DG9S | 40mL H2SO4 amber vial       |
|                 | WG9U | 4oz clear soil jar              | AG1S | 1 liter H2SO4 amber glass          | BP1U | 1 liter unpreserved plastic  | DG9T | 40mL Na Thio amber vial     |
|                 | R    | terra core kit                  | AG1T | 1 liter Na Thiosulfate amber glass | BP1Z | 1 liter NaOH, Zn, Ac         | DG9U | 40mL unpreserved amber vial |
|                 | BP2N | 500mL HNO3 plastic              | AG2N | 500mL HNO3 amber glass             | BP2A | 500mL NaOH, Asc Acid plastic | I    | Wipe/Swab                   |
|                 | BP2U | 500mL unpreserved plastic       | AG2S | 500mL H2SO4 amber glass            | BP2O | 500mL NaOH plastic           | JGFU | 4oz unpreserved amber wide  |
|                 | BP2S | 500mL H2SO4 plastic             | AG2U | 500mL unpreserved amber glass      | BP2Z | 500mL NaOH, Zn Ac            | U    | Summa Can                   |
|                 | BP3N | 250mL HNO3 plastic              | AG3U | 250mL unpreserved amber glass      | AF   | Air Filter                   | VG9H | 40mL HCL clear vial         |
|                 | BP3U | 250mL unpreserved plastic       | BG1H | 1 liter HCL clear glass            | BP3C | 250mL NaOH plastic           | VG9T | 40mL Na Thio. clear vial    |
|                 | BP3S | 250mL H2SO4 plastic             | BG1S | 1 liter H2SO4 clear glass          | BP3Z | 250mL NaOH, Zn Ac plastic    | VG9U | 40mL unpreserved clear vial |
|                 | AG3S | 250mL H2SO4 glass amber         | BG1T | 1 liter Na Thiosulfate clear glass | C    | Air Cassettes                | VSG  | Headspace septa vial & HCL  |
|                 | AG1S | 1 liter H2SO4 amber glass       | BG1U | 1 liter unpreserved glass          | DG9B | 40mL Na Bisulfate amber vial | WGFU | 4oz wide jar w/hexane wipe  |
|                 | BP1U | 1 liter unpreserved plastic     | BP1A | 1 liter NaOH, Asc Acid plastic     | DG9M | 40mL MeOH clear vial         | ZPLC | Ziploc Bag                  |

Sample Container Count



CLIENT: Weaver Boas

COC PAGE 2 of 2  
 COC ID# 1803914

Project # 5099765

*TPA*

| Sample Line Item | DG9H | AG1U | WGUFU | AG0U | R | D6 | BP2N | BP2U | BP2S | BP3N | BP3U | BP3S | AG3S | AG1H | BP3C | BP1U | SPST | pH <2 | pH >12 | Comments |  |
|------------------|------|------|-------|------|---|----|------|------|------|------|------|------|------|------|------|------|------|-------|--------|----------|--|
| 1                |      |      | 2     |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 2                |      |      | 2     |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 3                |      |      | 2     |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 4                |      |      |       |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 5                |      |      |       |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 6                |      |      |       |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 7                |      |      |       |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 8                |      |      |       |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 9                |      |      |       |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 10               |      |      |       |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 11               |      |      |       |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 12               |      |      |       |      |   |    |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |

Container Codes

| Sample Line Item | Description                     | Code | Description                        | Code | Description                  | Code | Description                 | Code | Description | Code | Description | Code | Description | Code | Description | Code | Description | Code | Description | Code | Description |
|------------------|---------------------------------|------|------------------------------------|------|------------------------------|------|-----------------------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|
| DG9H             | 40mL HCL amber vial             | AG0U | 100mL unpreserved amber glass      | BP1N | 1 liter HNO3 plastic         | DG9P | 40mL TSP amber vial         |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| AG1U             | 1 liter unpreserved amber glass | AG1H | 1 liter HCL clear glass            | BP1S | 1 liter H2SO4 plastic        | DG9S | 40mL H2SO4 amber vial       |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| WGUFU            | 4oz clear soil jar              | AG1S | 1 liter H2SO4 amber glass          | BP1U | 1 liter unpreserved plastic  | DG9T | 40mL Na Thio amber vial     |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| R                | terra core kit                  | AG1T | 1 liter Na Thiosulfate amber glass | BP1Z | 1 liter NaOH, Zn, Ac         | DG9U | 40mL unpreserved amber vial |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| BP2N             | 500mL HNO3 plastic              | AG2N | 500mL HNO3 amber glass             | BP2A | 500mL NaOH, Asc Acid plastic | I    | Wipe/Swab                   |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| BP2U             | 500mL unpreserved plastic       | AG2S | 500mL H2SO4 amber glass            | BP2O | 500mL NaOH plastic           | JGFU | 4oz unpreserved amber wide  |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| BP2S             | 500mL H2SO4 plastic             | AG2U | 500mL unpreserved amber glass      | BP2Z | 500mL NaOH, Zn Ac            | U    | Summa Can                   |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| BP3N             | 250mL HNO3 plastic              | AG3U | 250mL unpreserved amber glass      | AF   | Air Filter                   | VG9H | 40mL HCL clear vial         |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| BP3U             | 250mL unpreserved plastic       | BG1H | 1 liter HCL clear glass            | BP3C | 250mL NaOH plastic           | VG9T | 40mL Na Thio. clear vial    |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| BP3S             | 250mL H2SO4 plastic             | BG1S | 1 liter H2SO4 clear glass          | BP3Z | 250mL NaOH, Zn Ac plastic    | VG9U | 40mL unpreserved clear vial |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| AG3S             | 250mL H2SO4 glass amber         | BG1T | 1 liter Na Thiosulfate clear glass | C    | Air Cassettes                | VSG  | Headspace septa vial & HCL  |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| AG1S             | 1 liter H2SO4 amber glass       | BG1U | 1 liter unpreserved glass          | DG9B | 40mL Na Bisulfate amber vial | WGFY | 4oz wide jar w/hexane wipe  |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| BP1U             | 1 liter unpreserved plastic     | BP1A | 1 liter NaOH, Asc Acid plastic     | DG9M | 40mL MeOH clear vial         | ZPLC | Ziploc Bag                  |      |             |      |             |      |             |      |             |      |             |      |             |      |             |

July 17, 2014

Mr. Steve Stanford  
Weaver Boos & Gordon  
7121 Grape Road  
Granger, IN 46530

RE: Project: Sibley - Accucast  
Pace Project No.: 50100317

Dear Mr. Stanford:

Enclosed are the analytical results for sample(s) received by the laboratory on July 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lyle Cable  
lyle.cable@pacelabs.com  
Project Manager

Enclosures

cc: Mr. Alex Huang, Weaver Boos



## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, Inc.**  
7726 Moller Road  
Indianapolis, IN 46268  
(317)228-3100

## CERTIFICATIONS

Project: Sibley - Accucast  
Pace Project No.: 50100317

---

### Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268  
Illinois Certification #: 200074  
Indiana Certification #: C-49-06  
Kansas Certification #: E-10247

Kentucky UST Certification #: 0042  
Louisiana/NELAP Certification #: 04076  
Ohio VAP Certification #: CL-0065  
West Virginia Certification #: 330

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## SAMPLE SUMMARY

Project: Sibley - Accucast

Pace Project No.: 50100317

| Lab ID      | Sample ID   | Matrix | Date Collected | Date Received  |
|-------------|-------------|--------|----------------|----------------|
| 50100317001 | TMW-1       | Water  | 07/02/14 15:25 | 07/03/14 09:15 |
| 50100317002 | TMW-2       | Water  | 07/02/14 16:20 | 07/03/14 09:15 |
| 50100317003 | TMW-3       | Water  | 07/02/14 17:30 | 07/03/14 09:15 |
| 50100317004 | TMW-4       | Water  | 07/02/14 12:55 | 07/03/14 09:15 |
| 50100317005 | TMW-5       | Water  | 07/02/14 14:00 | 07/03/14 09:15 |
| 50100317006 | TMW-6       | Water  | 07/02/14 13:30 | 07/03/14 09:15 |
| 50100317007 | TMW-7       | Water  | 07/02/14 12:30 | 07/03/14 09:15 |
| 50100317008 | TMW-8       | Water  | 07/02/14 14:50 | 07/03/14 09:15 |
| 50100317009 | TMW-9       | Water  | 07/02/14 11:05 | 07/03/14 09:15 |
| 50100317010 | TMW-10      | Water  | 07/02/14 10:20 | 07/03/14 09:15 |
| 50100317011 | GW-Dupe     | Water  | 07/02/14 08:00 | 07/03/14 09:15 |
| 50100317012 | GW EQ Blank | Water  | 07/02/14 18:30 | 07/03/14 09:15 |
| 50100317013 | Trip Blank  | Water  | 07/02/14 08:00 | 07/03/14 09:15 |
| 50100317014 | S-A IDW     | Water  | 07/02/14 18:00 | 07/03/14 09:15 |

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### SAMPLE ANALYTE COUNT

Project: Sibley - Accucast

Pace Project No.: 50100317

| Lab ID      | Sample ID   | Method   | Analysts | Analytes Reported |
|-------------|-------------|----------|----------|-------------------|
| 50100317001 | TMW-1       | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317002 | TMW-2       | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317003 | TMW-3       | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | DAE      | 73                |
| 50100317004 | TMW-4       | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317005 | TMW-5       | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317006 | TMW-6       | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317007 | TMW-7       | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317008 | TMW-8       | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317009 | TMW-9       | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317010 | TMW-10      | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317011 | GW-Dupe     | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317012 | GW EQ Blank | EPA 6010 | LLB      | 8                 |
|             |             | EPA 8270 | SN       | 66                |
|             |             | EPA 8260 | RSW      | 73                |
| 50100317013 | Trip Blank  | EPA 8260 | RSW      | 73                |

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### SAMPLE ANALYTE COUNT

Project: Sibley - Accucast

Pace Project No.: 50100317

| Lab ID      | Sample ID | Method   | Analysts | Analytes Reported |
|-------------|-----------|----------|----------|-------------------|
| 50100317014 | S-A IDW   | EPA 6010 | LLB      | 11                |
|             |           | EPA 7470 | LLB      | 1                 |
|             |           | EPA 8270 | SN       | 66                |
|             |           | EPA 8260 | RSW      | 73                |
|             |           | SM 2540D | MLS      | 1                 |
|             |           | SM 5210B | ZM       | 1                 |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 50100317

| Sample: TMW-1      Lab ID: 50100317001      Collected: 07/02/14 15:25      Received: 07/03/14 09:15      Matrix: Water |                  |       |              |    |                |                |           |      |
|--|------------------|-------|--------------|----|----------------|----------------|-----------|------|
| Parameters   | Results          | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010      Preparation Method: EPA 3010                                      |                  |       |              |    |                |                |           |      |
| Antimony   | ND ug/L          |       | 6.0          | 1  | 07/08/14 14:55 | 07/10/14 12:13 | 7440-36-0 | CU   |
| Arsenic  | ND ug/L          |       | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:13 | 7440-38-2 |      |
| Chromium   | ND ug/L          |       | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:13 | 7440-47-3 |      |
| Cobalt   | ND ug/L          |       | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:13 | 7440-48-4 |      |
| Iron   | <b>2770</b> ug/L |       | 100          | 1  | 07/08/14 14:55 | 07/10/14 12:13 | 7439-89-6 |      |
| Lead   | ND ug/L          |       | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:13 | 7439-92-1 |      |
| Selenium   | ND ug/L          |       | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:13 | 7782-49-2 |      |
| Thallium   | ND ug/L          |       | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:13 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270      Preparation Method: EPA 3510                    |                  |       |              |    |                |                |           |      |
| Acenaphthene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 83-32-9   |      |
| Acenaphthylene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 208-96-8  |      |
| Anthracene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 120-12-7  |      |
| Benzo(a)anthracene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 56-55-3   |      |
| Benzo(a)pyrene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 50-32-8   |      |
| Benzo(b)fluoranthene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 191-24-2  |      |
| Benzo(k)fluoranthene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 207-08-9  |      |
| Benzyl alcohol   | ND ug/L          |       | 20.6         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 100-51-6  |      |
| 4-Bromophenylphenyl ether  | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 101-55-3  |      |
| Butylbenzylphthalate   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 85-68-7   |      |
| 4-Chloro-3-methylphenol  | ND ug/L          |       | 20.6         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 59-50-7   |      |
| 4-Chloroaniline  | ND ug/L          |       | 20.6         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 111-44-4  |      |
| bis(2chloro1methylethyl) ether   | ND ug/L          |       | 5.2          | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 108-60-1  |      |
| 2-Chloronaphthalene  | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 91-58-7   |      |
| 2-Chlorophenol   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 7005-72-3 |      |
| Chrysene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 53-70-3   |      |
| Dibenzofuran   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine   | ND ug/L          |       | 20.6         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 91-94-1   |      |
| 2,4-Dichlorophenol   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 120-83-2  |      |
| Diethylphthalate   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 84-66-2   |      |
| 2,4-Dimethylphenol   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 105-67-9  |      |
| Dimethylphthalate  | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 131-11-3  |      |
| Di-n-butylphthalate  | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | ND ug/L          |       | 51.5         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND ug/L          |       | 51.5         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 606-20-2  |      |
| Di-n-octylphthalate  | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate   | ND ug/L          |       | 5.2          | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 117-81-7  |      |
| Fluoranthene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 206-44-0  |      |
| Fluorene   | ND ug/L          |       | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | ND ug/L          |       | 5.2          | 1  | 07/09/14 13:01 | 07/10/14 01:46 | 87-68-3   |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 50100317

| Sample: TMW-1  |         | Lab ID: 50100317001 | Collected: 07/02/14 15:25 | Received: 07/03/14 09:15 | Matrix: Water  |                |           |      |
|--|---------|---------------------|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters   | Results | Units               | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b>                    |         |                     |                           |                          |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |         |                     |                           |                          |                |                |           |      |
| Hexachlorobenzene  | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | ND ug/L |                     | 20.6                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 77-47-4   |      |
| Hexachloroethane   | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 193-39-5  |      |
| Isophorone   | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | ND ug/L |                     | 20.6                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 |           |      |
| Naphthalene  | ND ug/L |                     | 5.2                       | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 91-20-3   |      |
| 2-Nitroaniline   | ND ug/L |                     | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 88-74-4   |      |
| 3-Nitroaniline   | ND ug/L |                     | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 99-09-2   |      |
| 4-Nitroaniline   | ND ug/L |                     | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 100-01-6  |      |
| Nitrobenzene   | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 98-95-3   |      |
| 2-Nitrophenol  | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 88-75-5   |      |
| 4-Nitrophenol  | ND ug/L |                     | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine                               | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 86-30-6   |      |
| Pentachlorophenol  | ND ug/L |                     | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 87-86-5   |      |
| Phenanthrene   | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 85-01-8   |      |
| Phenol   | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 108-95-2  |      |
| Pyrene   | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                                    | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | ND ug/L |                     | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 88-06-2   |      |
| <b>Surrogates</b>  |         |                     |                           |                          |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 83 %    |                     | 29-126                    | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                                     | 85 %    |                     | 31-118                    | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 43 %    |                     | 28-129                    | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 1718-51-0 |      |
| Phenol-d5 (S)  | 16 %    |                     | 10-47                     | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 28 %    |                     | 10-67                     | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 84 %    |                     | 31-161                    | 1                        | 07/09/14 13:01 | 07/10/14 01:46 | 118-79-6  |      |
| <b>8260 MSV</b>  |         |                     |                           |                          |                |                |           |      |
| Analytical Method: EPA 8260                              |         |                     |                           |                          |                |                |           |      |
| Acetone  | ND ug/L |                     | 100                       | 1                        |                | 07/15/14 23:19 | 67-64-1   |      |
| Acrolein   | ND ug/L |                     | 50.0                      | 1                        |                | 07/15/14 23:19 | 107-02-8  |      |
| Acrylonitrile  | ND ug/L |                     | 100                       | 1                        |                | 07/15/14 23:19 | 107-13-1  |      |
| Benzene  | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 71-43-2   |      |
| Bromobenzene   | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 108-86-1  |      |
| Bromochloromethane                                       | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 74-97-5   |      |
| Bromodichloromethane                                     | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 75-27-4   |      |
| Bromoform  | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 75-25-2   |      |
| Bromomethane   | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 74-83-9   |      |
| 2-Butanone (MEK)   | ND ug/L |                     | 25.0                      | 1                        |                | 07/15/14 23:19 | 78-93-3   |      |
| n-Butylbenzene   | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 104-51-8  |      |
| sec-Butylbenzene   | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 135-98-8  |      |
| tert-Butylbenzene  | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 98-06-6   |      |
| Carbon disulfide   | ND ug/L |                     | 10.0                      | 1                        |                | 07/15/14 23:19 | 75-15-0   |      |
| Carbon tetrachloride                                     | ND ug/L |                     | 5.0                       | 1                        |                | 07/15/14 23:19 | 56-23-5   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 50100317

| Sample: <b>TMW-1</b>        | Lab ID: <b>50100317001</b> | Collected: 07/02/14 15:25   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|----------------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results                    | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                            | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 108-90-7   |      |
| Chloroethane                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 75-00-3    |      |
| Chloroform                  | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 67-66-3    |      |
| Chloromethane               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 74-87-3    |      |
| 2-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 95-49-8    |      |
| 4-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 106-43-4   |      |
| Dibromochloromethane        | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 106-93-4   |      |
| Dibromomethane              | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND ug/L                    |                             | 100                      | 1             |          | 07/15/14 23:19 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 100-41-4   |      |
| Ethyl methacrylate          | ND ug/L                    |                             | 100                      | 1             |          | 07/15/14 23:19 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 87-68-3    |      |
| n-Hexane                    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 110-54-3   | N2   |
| 2-Hexanone                  | ND ug/L                    |                             | 25.0                     | 1             |          | 07/15/14 23:19 | 591-78-6   |      |
| Iodomethane                 | ND ug/L                    |                             | 10.0                     | 1             |          | 07/15/14 23:19 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 98-82-8    |      |
| p-Isopropyltoluene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 99-87-6    |      |
| Methylene Chloride          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L                    |                             | 25.0                     | 1             |          | 07/15/14 23:19 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND ug/L                    |                             | 4.0                      | 1             |          | 07/15/14 23:19 | 1634-04-4  |      |
| Naphthalene                 | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 91-20-3    |      |
| n-Propylbenzene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 103-65-1   |      |
| Styrene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 79-34-5    |      |
| Tetrachloroethene           | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 127-18-4   |      |
| Toluene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | <b>6.2</b> ug/L            |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/15/14 23:19 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: TMW-1            |         | Lab ID: 50100317001         | Collected: 07/02/14 15:25 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND      | ug/L                        | 5.0                       | 1                        |               | 07/15/14 23:19 | 79-01-6   |      |
| Trichlorofluoromethane   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/15/14 23:19 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/15/14 23:19 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/15/14 23:19 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/15/14 23:19 | 108-67-8  |      |
| Vinyl acetate            | ND      | ug/L                        | 50.0                      | 1                        |               | 07/15/14 23:19 | 108-05-4  |      |
| Vinyl chloride           | ND      | ug/L                        | 2.0                       | 1                        |               | 07/15/14 23:19 | 75-01-4   |      |
| Xylene (Total)           | ND      | ug/L                        | 10.0                      | 1                        |               | 07/15/14 23:19 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 106 %.  |                             | 79-116                    | 1                        |               | 07/15/14 23:19 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 88 %.   |                             | 80-114                    | 1                        |               | 07/15/14 23:19 | 460-00-4  |      |
| Toluene-d8 (S)           | 89 %.   |                             | 81-110                    | 1                        |               | 07/15/14 23:19 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-2</b>                  |                  | Lab ID: <b>50100317002</b>                               | Collected: 07/02/14 16:20 | Received: 07/03/14 09:15 | Matrix: Water  |                |           |      |
|---------------------------------------|------------------|--|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                            | Results          | Units  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                   |                  | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |           |      |
| Antimony                              | ND ug/L          |  | 6.0                       | 1                        | 07/08/14 14:55 | 07/10/14 12:16 | 7440-36-0 | CU   |
| Arsenic                               | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:16 | 7440-38-2 |      |
| Chromium                              | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:16 | 7440-47-3 |      |
| Cobalt                                | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:16 | 7440-48-4 |      |
| Iron                                  | <b>1430</b> ug/L |  | 100                       | 1                        | 07/08/14 14:55 | 07/10/14 12:16 | 7439-89-6 |      |
| Lead                                  | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:16 | 7439-92-1 |      |
| Selenium                              | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:16 | 7782-49-2 |      |
| Thallium                              | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:16 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> |                  | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                           |                          |                |                |           |      |
| Acenaphthene                          | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 83-32-9   |      |
| Acenaphthylene                        | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 208-96-8  |      |
| Anthracene                            | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 120-12-7  |      |
| Benzo(a)anthracene                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 56-55-3   |      |
| Benzo(a)pyrene                        | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 50-32-8   |      |
| Benzo(b)fluoranthene                  | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 205-99-2  |      |
| Benzo(g,h,i)perylene                  | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 191-24-2  |      |
| Benzo(k)fluoranthene                  | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 207-08-9  |      |
| Benzyl alcohol                        | ND ug/L          |  | 20.8                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 100-51-6  |      |
| 4-Bromophenylphenyl ether             | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 101-55-3  |      |
| Butylbenzylphthalate                  | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 85-68-7   |      |
| 4-Chloro-3-methylphenol               | ND ug/L          |  | 20.8                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 59-50-7   |      |
| 4-Chloroaniline                       | ND ug/L          |  | 20.8                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane            | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 111-91-1  |      |
| bis(2-Chloroethyl) ether              | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 111-44-4  |      |
| bis(2chloro 1methylethyl) ether       | ND ug/L          |  | 5.2                       | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 108-60-1  |      |
| 2-Chloronaphthalene                   | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 91-58-7   |      |
| 2-Chlorophenol                        | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether            | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 7005-72-3 |      |
| Chrysene                              | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 218-01-9  |      |
| Dibenz(a,h)anthracene                 | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 53-70-3   |      |
| Dibenzofuran                          | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                | ND ug/L          |  | 20.8                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 91-94-1   |      |
| 2,4-Dichlorophenol                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 120-83-2  |      |
| Diethylphthalate                      | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 84-66-2   |      |
| 2,4-Dimethylphenol                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 105-67-9  |      |
| Dimethylphthalate                     | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 131-11-3  |      |
| Di-n-butylphthalate                   | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol            | ND ug/L          |  | 52.1                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 534-52-1  |      |
| 2,4-Dinitrophenol                     | ND ug/L          |  | 52.1                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 51-28-5   |      |
| 2,4-Dinitrotoluene                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 121-14-2  |      |
| 2,6-Dinitrotoluene                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 606-20-2  |      |
| Di-n-octylphthalate                   | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate            | ND ug/L          |  | 5.2                       | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 117-81-7  |      |
| Fluoranthene                          | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 206-44-0  |      |
| Fluorene                              | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 86-73-7   |      |
| Hexachloro-1,3-butadiene              | ND ug/L          |  | 5.2                       | 1                        | 07/09/14 13:01 | 07/10/14 02:09 | 87-68-3   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-2</b>                                     | Lab ID: <b>50100317002</b> | Collected: 07/02/14 16:20 | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|--|----------------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters   | Results                    | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b>                    |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                            |                           |                          |               |                |                |           |      |
| Hexachlorobenzene  | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | ND ug/L                    |                           | 20.8                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 77-47-4   |      |
| Hexachloroethane   | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 193-39-5  |      |
| Isophorone   | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | ND ug/L                    |                           | 20.8                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 |           |      |
| Naphthalene  | ND ug/L                    |                           | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 91-20-3   |      |
| 2-Nitroaniline   | ND ug/L                    |                           | 52.1                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 88-74-4   |      |
| 3-Nitroaniline   | ND ug/L                    |                           | 52.1                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 99-09-2   |      |
| 4-Nitroaniline   | ND ug/L                    |                           | 52.1                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 100-01-6  |      |
| Nitrobenzene   | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 98-95-3   |      |
| 2-Nitrophenol  | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 88-75-5   |      |
| 4-Nitrophenol  | ND ug/L                    |                           | 52.1                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine                               | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 86-30-6   |      |
| Pentachlorophenol  | ND ug/L                    |                           | 52.1                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 87-86-5   |      |
| Phenanthrene   | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 85-01-8   |      |
| Phenol   | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 108-95-2  |      |
| Pyrene   | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                                    | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | ND ug/L                    |                           | 10.4                     | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 88-06-2   |      |
| <b>Surrogates</b>  |                            |                           |                          |               |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 87 %.                      |                           | 29-126                   | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                                     | 91 %.                      |                           | 31-118                   | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 55 %.                      |                           | 28-129                   | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 1718-51-0 |      |
| Phenol-d5 (S)  | 16 %.                      |                           | 10-47                    | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 27 %.                      |                           | 10-67                    | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 87 %.                      |                           | 31-161                   | 1             | 07/09/14 13:01 | 07/10/14 02:09 | 118-79-6  |      |
| <b>8260 MSV</b>  |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8260                              |                            |                           |                          |               |                |                |           |      |
| Acetone  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 00:23 | 67-64-1   |      |
| Acrolein   | ND ug/L                    |                           | 50.0                     | 1             |                | 07/16/14 00:23 | 107-02-8  |      |
| Acrylonitrile  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 00:23 | 107-13-1  |      |
| Benzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 71-43-2   |      |
| Bromobenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 108-86-1  |      |
| Bromochloromethane                                       | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 74-97-5   |      |
| Bromodichloromethane                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 75-27-4   |      |
| Bromoform  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 75-25-2   |      |
| Bromomethane   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 74-83-9   |      |
| 2-Butanone (MEK)   | ND ug/L                    |                           | 25.0                     | 1             |                | 07/16/14 00:23 | 78-93-3   |      |
| n-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 104-51-8  |      |
| sec-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 135-98-8  |      |
| tert-Butylbenzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 98-06-6   |      |
| Carbon disulfide   | ND ug/L                    |                           | 10.0                     | 1             |                | 07/16/14 00:23 | 75-15-0   |      |
| Carbon tetrachloride                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 00:23 | 56-23-5   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: TMW-2               | Lab ID: 50100317002 | Collected: 07/02/14 16:20   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results             | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                     | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 108-90-7   |      |
| Chloroethane                | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 75-00-3    |      |
| Chloroform                  | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 67-66-3    |      |
| Chloromethane               | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 74-87-3    |      |
| 2-Chlorotoluene             | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 95-49-8    |      |
| 4-Chlorotoluene             | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 106-43-4   |      |
| Dibromochloromethane        | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 106-93-4   |      |
| Dibromomethane              | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND                  | ug/L                        | 100                      | 1             |          | 07/16/14 00:23 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 10061-02-6 |      |
| Ethylbenzene                | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 100-41-4   |      |
| Ethyl methacrylate          | ND                  | ug/L                        | 100                      | 1             |          | 07/16/14 00:23 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 87-68-3    |      |
| n-Hexane                    | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 110-54-3   | N2   |
| 2-Hexanone                  | ND                  | ug/L                        | 25.0                     | 1             |          | 07/16/14 00:23 | 591-78-6   |      |
| Iodomethane                 | ND                  | ug/L                        | 10.0                     | 1             |          | 07/16/14 00:23 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 98-82-8    |      |
| p-Isopropyltoluene          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 99-87-6    |      |
| Methylene Chloride          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND                  | ug/L                        | 25.0                     | 1             |          | 07/16/14 00:23 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND                  | ug/L                        | 4.0                      | 1             |          | 07/16/14 00:23 | 1634-04-4  |      |
| Naphthalene                 | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 91-20-3    |      |
| n-Propylbenzene             | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 103-65-1   |      |
| Styrene                     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 79-34-5    |      |
| Tetrachloroethene           | 6.6                 | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 127-18-4   |      |
| Toluene                     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 00:23 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-2</b>     |         | Lab ID: <b>50100317002</b>  | Collected: 07/02/14 16:20 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 00:23 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 00:23 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 00:23 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 00:23 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 00:23 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L |                             | 50.0                      | 1                        |               | 07/16/14 00:23 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L |                             | 2.0                       | 1                        |               | 07/16/14 00:23 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L |                             | 10.0                      | 1                        |               | 07/16/14 00:23 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 97 %.   |                             | 79-116                    | 1                        |               | 07/16/14 00:23 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 93 %.   |                             | 80-114                    | 1                        |               | 07/16/14 00:23 | 460-00-4  |      |
| Toluene-d8 (S)           | 91 %.   |                             | 81-110                    | 1                        |               | 07/16/14 00:23 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: TMW-3  | Lab ID: 50100317003 | Collected: 07/02/14 17:30 | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|--|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters   | Results             | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                                      |                     |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                     |                           |                          |               |                |                |           |      |
| Antimony   | ND ug/L             |                           | 6.0                      | 1             | 07/08/14 14:55 | 07/10/14 12:24 | 7440-36-0 | CU   |
| Arsenic  | ND ug/L             |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:24 | 7440-38-2 |      |
| Chromium   | ND ug/L             |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:24 | 7440-47-3 |      |
| Cobalt   | ND ug/L             |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:24 | 7440-48-4 |      |
| Iron   | <b>326</b> ug/L     |                           | 100                      | 1             | 07/08/14 14:55 | 07/10/14 12:24 | 7439-89-6 |      |
| Lead   | ND ug/L             |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:24 | 7439-92-1 |      |
| Selenium   | ND ug/L             |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:24 | 7782-49-2 |      |
| Thallium   | ND ug/L             |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:24 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b>                    |                     |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                     |                           |                          |               |                |                |           |      |
| Acenaphthene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 83-32-9   |      |
| Acenaphthylene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 208-96-8  |      |
| Anthracene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 120-12-7  |      |
| Benzo(a)anthracene                                       | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 56-55-3   |      |
| Benzo(a)pyrene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 207-08-9  |      |
| Benzyl alcohol   | ND ug/L             |                           | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 100-51-6  |      |
| 4-Bromophenylphenyl ether                                | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 101-55-3  |      |
| Butylbenzylphthalate                                     | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 85-68-7   |      |
| 4-Chloro-3-methylphenol                                  | ND ug/L             |                           | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 59-50-7   |      |
| 4-Chloroaniline  | ND ug/L             |                           | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane                               | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 111-44-4  |      |
| bis(2chloro1methylethyl) ether                           | ND ug/L             |                           | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 91-58-7   |      |
| 2-Chlorophenol   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 7005-72-3 |      |
| Chrysene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 53-70-3   |      |
| Dibenzofuran   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                                   | ND ug/L             |                           | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 91-94-1   |      |
| 2,4-Dichlorophenol                                       | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 120-83-2  |      |
| Diethylphthalate   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 105-67-9  |      |
| Dimethylphthalate  | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 131-11-3  |      |
| Di-n-butylphthalate                                      | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | ND ug/L             |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND ug/L             |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 606-20-2  |      |
| Di-n-octylphthalate                                      | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate                               | ND ug/L             |                           | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 117-81-7  |      |
| Fluoranthene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 206-44-0  |      |
| Fluorene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | ND ug/L             |                           | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 02:31 | 87-68-3   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| <b>Sample: TMW-3</b>                  |         | <b>Lab ID: 50100317003</b>                               | Collected: 07/02/14 17:30 | Received: 07/03/14 09:15 | Matrix: Water  |                |           |      |
|---------------------------------------|---------|--|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                            | Results | Units  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                           |                          |                |                |           |      |
| Hexachlorobenzene                     | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 118-74-1  |      |
| Hexachlorocyclopentadiene             | ND ug/L |  | 20.6                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 77-47-4   |      |
| Hexachloroethane                      | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 193-39-5  |      |
| Isophorone                            | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 78-59-1   |      |
| 2-Methylnaphthalene                   | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)              | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)          | ND ug/L |  | 20.6                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 |           |      |
| Naphthalene                           | ND ug/L |  | 5.2                       | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 91-20-3   |      |
| 2-Nitroaniline                        | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 88-74-4   |      |
| 3-Nitroaniline                        | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 99-09-2   |      |
| 4-Nitroaniline                        | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 100-01-6  |      |
| Nitrobenzene                          | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 98-95-3   |      |
| 2-Nitrophenol                         | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 88-75-5   |      |
| 4-Nitrophenol                         | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine            | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 621-64-7  |      |
| N-Nitrosodiphenylamine                | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 86-30-6   |      |
| Pentachlorophenol                     | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 87-86-5   |      |
| Phenanthrene                          | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 85-01-8   |      |
| Phenol                                | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 108-95-2  |      |
| Pyrene                                | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                 | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                 | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 88-06-2   |      |
| <b>Surrogates</b>                     |         |  |                           |                          |                |                |           |      |
| Nitrobenzene-d5 (S)                   | 86 %.   |  | 29-126                    | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                  | 88 %.   |  | 31-118                    | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                   | 72 %.   |  | 28-129                    | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 1718-51-0 |      |
| Phenol-d5 (S)                         | 18 %.   |  | 10-47                     | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 4165-62-2 |      |
| 2-Fluorophenol (S)                    | 30 %.   |  | 10-67                     | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)              | 99 %.   |  | 31-161                    | 1                        | 07/09/14 13:01 | 07/10/14 02:31 | 118-79-6  |      |
| <b>8260 MSV</b>                       |         | Analytical Method: EPA 8260                              |                           |                          |                |                |           |      |
| Acetone                               | ND ug/L |  | 100                       | 1                        |                | 07/16/14 17:42 | 67-64-1   |      |
| Acrolein                              | ND ug/L |  | 50.0                      | 1                        |                | 07/16/14 17:42 | 107-02-8  |      |
| Acrylonitrile                         | ND ug/L |  | 100                       | 1                        |                | 07/16/14 17:42 | 107-13-1  |      |
| Benzene                               | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 71-43-2   |      |
| Bromobenzene                          | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 108-86-1  |      |
| Bromochloromethane                    | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 74-97-5   |      |
| Bromodichloromethane                  | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 75-27-4   |      |
| Bromoform                             | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 75-25-2   |      |
| Bromomethane                          | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 74-83-9   |      |
| 2-Butanone (MEK)                      | ND ug/L |  | 25.0                      | 1                        |                | 07/16/14 17:42 | 78-93-3   |      |
| n-Butylbenzene                        | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 104-51-8  |      |
| sec-Butylbenzene                      | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 135-98-8  |      |
| tert-Butylbenzene                     | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 98-06-6   |      |
| Carbon disulfide                      | ND ug/L |  | 10.0                      | 1                        |                | 07/16/14 17:42 | 75-15-0   |      |
| Carbon tetrachloride                  | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 17:42 | 56-23-5   |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: TMW-3               | Lab ID: 50100317003 | Collected: 07/02/14 17:30   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results             | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                     | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 108-90-7   |      |
| Chloroethane                | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 75-00-3    |      |
| Chloroform                  | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 67-66-3    |      |
| Chloromethane               | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 74-87-3    |      |
| 2-Chlorotoluene             | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 95-49-8    |      |
| 4-Chlorotoluene             | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 106-43-4   |      |
| Dibromochloromethane        | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 106-93-4   |      |
| Dibromomethane              | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND                  | ug/L                        | 100                      | 1             |          | 07/16/14 17:42 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 10061-02-6 |      |
| Ethylbenzene                | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 100-41-4   |      |
| Ethyl methacrylate          | ND                  | ug/L                        | 100                      | 1             |          | 07/16/14 17:42 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 87-68-3    |      |
| n-Hexane                    | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 110-54-3   |      |
| 2-Hexanone                  | ND                  | ug/L                        | 25.0                     | 1             |          | 07/16/14 17:42 | 591-78-6   |      |
| Iodomethane                 | ND                  | ug/L                        | 10.0                     | 1             |          | 07/16/14 17:42 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 98-82-8    |      |
| p-Isopropyltoluene          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 99-87-6    |      |
| Methylene Chloride          | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND                  | ug/L                        | 25.0                     | 1             |          | 07/16/14 17:42 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND                  | ug/L                        | 4.0                      | 1             |          | 07/16/14 17:42 | 1634-04-4  |      |
| Naphthalene                 | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 91-20-3    |      |
| n-Propylbenzene             | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 103-65-1   |      |
| Styrene                     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 79-34-5    |      |
| Tetrachloroethene           | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 127-18-4   |      |
| Toluene                     | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | 9.7                 | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND                  | ug/L                        | 5.0                      | 1             |          | 07/16/14 17:42 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-3</b>     |         | Lab ID: <b>50100317003</b>  | Collected: 07/02/14 17:30 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 17:42 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 17:42 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 17:42 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 17:42 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 17:42 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L |                             | 50.0                      | 1                        |               | 07/16/14 17:42 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L |                             | 2.0                       | 1                        |               | 07/16/14 17:42 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L |                             | 10.0                      | 1                        |               | 07/16/14 17:42 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 100 %.  |                             | 79-116                    | 1                        |               | 07/16/14 17:42 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 96 %.   |                             | 80-114                    | 1                        |               | 07/16/14 17:42 | 460-00-4  |      |
| Toluene-d8 (S)           | 101 %.  |                             | 81-110                    | 1                        |               | 07/16/14 17:42 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

**Sample: TMW-4**      **Lab ID: 50100317004**      Collected: 07/02/14 12:55      Received: 07/03/14 09:15      Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**6010 MET ICP**

Analytical Method: EPA 6010      Preparation Method: EPA 3010

|          |                  |  |      |   |                |                |           |    |
|----------|------------------|--|------|---|----------------|----------------|-----------|----|
| Antimony | ND ug/L          |  | 6.0  | 1 | 07/08/14 14:55 | 07/10/14 12:27 | 7440-36-0 | CU |
| Arsenic  | ND ug/L          |  | 10.0 | 1 | 07/08/14 14:55 | 07/10/14 12:27 | 7440-38-2 |    |
| Chromium | ND ug/L          |  | 10.0 | 1 | 07/08/14 14:55 | 07/10/14 12:27 | 7440-47-3 |    |
| Cobalt   | ND ug/L          |  | 10.0 | 1 | 07/08/14 14:55 | 07/10/14 12:27 | 7440-48-4 |    |
| Iron     | <b>1550</b> ug/L |  | 100  | 1 | 07/08/14 14:55 | 07/10/14 12:27 | 7439-89-6 |    |
| Lead     | ND ug/L          |  | 10.0 | 1 | 07/08/14 14:55 | 07/10/14 12:27 | 7439-92-1 |    |
| Selenium | ND ug/L          |  | 10.0 | 1 | 07/08/14 14:55 | 07/10/14 12:27 | 7782-49-2 |    |
| Thallium | ND ug/L          |  | 10.0 | 1 | 07/08/14 14:55 | 07/10/14 12:27 | 7440-28-0 |    |

**8270 MSSV Semivolatile Organic**

Analytical Method: EPA 8270      Preparation Method: EPA 3510

|                                 |         |  |      |   |                |                |           |  |
|---------------------------------|---------|--|------|---|----------------|----------------|-----------|--|
| Acenaphthene                    | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 83-32-9   |  |
| Acenaphthylene                  | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 208-96-8  |  |
| Anthracene                      | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 120-12-7  |  |
| Benzo(a)anthracene              | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 56-55-3   |  |
| Benzo(a)pyrene                  | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 50-32-8   |  |
| Benzo(b)fluoranthene            | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 205-99-2  |  |
| Benzo(g,h,i)perylene            | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 191-24-2  |  |
| Benzo(k)fluoranthene            | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 207-08-9  |  |
| Benzyl alcohol                  | ND ug/L |  | 20.6 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 100-51-6  |  |
| 4-Bromophenylphenyl ether       | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 101-55-3  |  |
| Butylbenzylphthalate            | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 85-68-7   |  |
| 4-Chloro-3-methylphenol         | ND ug/L |  | 20.6 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 59-50-7   |  |
| 4-Chloroaniline                 | ND ug/L |  | 20.6 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 106-47-8  |  |
| bis(2-Chloroethoxy)methane      | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 111-91-1  |  |
| bis(2-Chloroethyl) ether        | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 111-44-4  |  |
| bis(2chloro 1methylethyl) ether | ND ug/L |  | 5.2  | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 108-60-1  |  |
| 2-Chloronaphthalene             | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 91-58-7   |  |
| 2-Chlorophenol                  | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 95-57-8   |  |
| 4-Chlorophenylphenyl ether      | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 7005-72-3 |  |
| Chrysene                        | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 218-01-9  |  |
| Dibenz(a,h)anthracene           | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 53-70-3   |  |
| Dibenzofuran                    | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 132-64-9  |  |
| 3,3'-Dichlorobenzidine          | ND ug/L |  | 20.6 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 91-94-1   |  |
| 2,4-Dichlorophenol              | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 120-83-2  |  |
| Diethylphthalate                | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 84-66-2   |  |
| 2,4-Dimethylphenol              | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 105-67-9  |  |
| Dimethylphthalate               | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 131-11-3  |  |
| Di-n-butylphthalate             | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 84-74-2   |  |
| 4,6-Dinitro-2-methylphenol      | ND ug/L |  | 51.5 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 534-52-1  |  |
| 2,4-Dinitrophenol               | ND ug/L |  | 51.5 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 51-28-5   |  |
| 2,4-Dinitrotoluene              | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 121-14-2  |  |
| 2,6-Dinitrotoluene              | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 606-20-2  |  |
| Di-n-octylphthalate             | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 117-84-0  |  |
| bis(2-Ethylhexyl)phthalate      | ND ug/L |  | 5.2  | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 117-81-7  |  |
| Fluoranthene                    | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 206-44-0  |  |
| Fluorene                        | ND ug/L |  | 10.3 | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 86-73-7   |  |
| Hexachloro-1,3-butadiene        | ND ug/L |  | 5.2  | 1 | 07/09/14 13:01 | 07/10/14 02:54 | 87-68-3   |  |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: TMW-4  | Lab ID: 50100317004 | Collected: 07/02/14 12:55 | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|--|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters   | Results             | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b>                    |                     |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                     |                           |                          |               |                |                |           |      |
| Hexachlorobenzene  | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | ND ug/L             |                           | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 77-47-4   |      |
| Hexachloroethane   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 193-39-5  |      |
| Isophorone   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | ND ug/L             |                           | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 |           |      |
| Naphthalene  | ND ug/L             |                           | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 91-20-3   |      |
| 2-Nitroaniline   | ND ug/L             |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 88-74-4   |      |
| 3-Nitroaniline   | ND ug/L             |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 99-09-2   |      |
| 4-Nitroaniline   | ND ug/L             |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 100-01-6  |      |
| Nitrobenzene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 98-95-3   |      |
| 2-Nitrophenol  | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 88-75-5   |      |
| 4-Nitrophenol  | ND ug/L             |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine                               | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 86-30-6   |      |
| Pentachlorophenol  | ND ug/L             |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 87-86-5   |      |
| Phenanthrene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 85-01-8   |      |
| Phenol   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 108-95-2  |      |
| Pyrene   | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                                    | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | ND ug/L             |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 88-06-2   |      |
| <b>Surrogates</b>  |                     |                           |                          |               |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 83 %.               |                           | 29-126                   | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                                     | 84 %.               |                           | 31-118                   | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 53 %.               |                           | 28-129                   | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 1718-51-0 |      |
| Phenol-d5 (S)  | 18 %.               |                           | 10-47                    | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 29 %.               |                           | 10-67                    | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 95 %.               |                           | 31-161                   | 1             | 07/09/14 13:01 | 07/10/14 02:54 | 118-79-6  |      |
| <b>8260 MSV</b>  |                     |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8260                              |                     |                           |                          |               |                |                |           |      |
| Acetone  | ND ug/L             |                           | 100                      | 1             |                | 07/15/14 21:43 | 67-64-1   |      |
| Acrolein   | ND ug/L             |                           | 50.0                     | 1             |                | 07/15/14 21:43 | 107-02-8  |      |
| Acrylonitrile  | ND ug/L             |                           | 100                      | 1             |                | 07/15/14 21:43 | 107-13-1  |      |
| Benzene  | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 71-43-2   |      |
| Bromobenzene   | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 108-86-1  |      |
| Bromochloromethane                                       | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 74-97-5   |      |
| Bromodichloromethane                                     | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 75-27-4   |      |
| Bromoform  | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 75-25-2   |      |
| Bromomethane   | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 74-83-9   |      |
| 2-Butanone (MEK)   | ND ug/L             |                           | 25.0                     | 1             |                | 07/15/14 21:43 | 78-93-3   |      |
| n-Butylbenzene   | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 104-51-8  |      |
| sec-Butylbenzene   | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 135-98-8  |      |
| tert-Butylbenzene  | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 98-06-6   |      |
| Carbon disulfide   | ND ug/L             |                           | 10.0                     | 1             |                | 07/15/14 21:43 | 75-15-0   |      |
| Carbon tetrachloride                                     | ND ug/L             |                           | 5.0                      | 1             |                | 07/15/14 21:43 | 56-23-5   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: TMW-4               | Lab ID: 50100317004 | Collected: 07/02/14 12:55   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results             | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                     | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 108-90-7   |      |
| Chloroethane                | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 75-00-3    |      |
| Chloroform                  | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 67-66-3    |      |
| Chloromethane               | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 74-87-3    |      |
| 2-Chlorotoluene             | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 95-49-8    |      |
| 4-Chlorotoluene             | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 106-43-4   |      |
| Dibromochloromethane        | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 106-93-4   |      |
| Dibromomethane              | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND ug/L             |                             | 100                      | 1             |          | 07/15/14 21:43 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 100-41-4   |      |
| Ethyl methacrylate          | ND ug/L             |                             | 100                      | 1             |          | 07/15/14 21:43 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 87-68-3    |      |
| n-Hexane                    | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 110-54-3   | N2   |
| 2-Hexanone                  | ND ug/L             |                             | 25.0                     | 1             |          | 07/15/14 21:43 | 591-78-6   |      |
| Iodomethane                 | ND ug/L             |                             | 10.0                     | 1             |          | 07/15/14 21:43 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 98-82-8    |      |
| p-Isopropyltoluene          | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 99-87-6    |      |
| Methylene Chloride          | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L             |                             | 25.0                     | 1             |          | 07/15/14 21:43 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND ug/L             |                             | 4.0                      | 1             |          | 07/15/14 21:43 | 1634-04-4  |      |
| Naphthalene                 | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 91-20-3    |      |
| n-Propylbenzene             | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 103-65-1   |      |
| Styrene                     | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 79-34-5    |      |
| Tetrachloroethene           | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 127-18-4   |      |
| Toluene                     | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND ug/L             |                             | 5.0                      | 1             |          | 07/15/14 21:43 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-4</b>     |         | Lab ID: <b>50100317004</b>  | Collected: 07/02/14 12:55 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/15/14 21:43 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/15/14 21:43 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/15/14 21:43 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/15/14 21:43 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/15/14 21:43 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L |                             | 50.0                      | 1                        |               | 07/15/14 21:43 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L |                             | 2.0                       | 1                        |               | 07/15/14 21:43 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L |                             | 10.0                      | 1                        |               | 07/15/14 21:43 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 101 %.  |                             | 79-116                    | 1                        |               | 07/15/14 21:43 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 89 %.   |                             | 80-114                    | 1                        |               | 07/15/14 21:43 | 460-00-4  |      |
| Toluene-d8 (S)           | 90 %.   |                             | 81-110                    | 1                        |               | 07/15/14 21:43 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-5</b>                  |                  | Lab ID: <b>50100317005</b>                               | Collected: 07/02/14 14:00 | Received: 07/03/14 09:15 | Matrix: Water  |                |           |      |
|---------------------------------------|------------------|--|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                            | Results          | Units  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                   |                  | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |           |      |
| Antimony                              | ND ug/L          |  | 6.0                       | 1                        | 07/08/14 14:55 | 07/10/14 12:29 | 7440-36-0 | CU   |
| Arsenic                               | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:29 | 7440-38-2 |      |
| Chromium                              | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:29 | 7440-47-3 |      |
| Cobalt                                | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:29 | 7440-48-4 |      |
| Iron                                  | <b>1960</b> ug/L |  | 100                       | 1                        | 07/08/14 14:55 | 07/10/14 12:29 | 7439-89-6 |      |
| Lead                                  | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:29 | 7439-92-1 |      |
| Selenium                              | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:29 | 7782-49-2 |      |
| Thallium                              | ND ug/L          |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:29 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> |                  | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                           |                          |                |                |           |      |
| Acenaphthene                          | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 83-32-9   |      |
| Acenaphthylene                        | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 208-96-8  |      |
| Anthracene                            | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 120-12-7  |      |
| Benzo(a)anthracene                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 56-55-3   |      |
| Benzo(a)pyrene                        | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 50-32-8   |      |
| Benzo(b)fluoranthene                  | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 205-99-2  |      |
| Benzo(g,h,i)perylene                  | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 191-24-2  |      |
| Benzo(k)fluoranthene                  | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 207-08-9  |      |
| Benzyl alcohol                        | ND ug/L          |  | 20.8                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 100-51-6  |      |
| 4-Bromophenylphenyl ether             | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 101-55-3  |      |
| Butylbenzylphthalate                  | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 85-68-7   |      |
| 4-Chloro-3-methylphenol               | ND ug/L          |  | 20.8                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 59-50-7   |      |
| 4-Chloroaniline                       | ND ug/L          |  | 20.8                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane            | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 111-91-1  |      |
| bis(2-Chloroethyl) ether              | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 111-44-4  |      |
| bis(2chloro1methylethyl) ether        | ND ug/L          |  | 5.2                       | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 108-60-1  |      |
| 2-Chloronaphthalene                   | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 91-58-7   |      |
| 2-Chlorophenol                        | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether            | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 7005-72-3 |      |
| Chrysene                              | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 218-01-9  |      |
| Dibenz(a,h)anthracene                 | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 53-70-3   |      |
| Dibenzofuran                          | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                | ND ug/L          |  | 20.8                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 91-94-1   |      |
| 2,4-Dichlorophenol                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 120-83-2  |      |
| Diethylphthalate                      | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 84-66-2   |      |
| 2,4-Dimethylphenol                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 105-67-9  |      |
| Dimethylphthalate                     | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 131-11-3  |      |
| Di-n-butylphthalate                   | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol            | ND ug/L          |  | 52.1                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 534-52-1  |      |
| 2,4-Dinitrophenol                     | ND ug/L          |  | 52.1                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 51-28-5   |      |
| 2,4-Dinitrotoluene                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 121-14-2  |      |
| 2,6-Dinitrotoluene                    | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 606-20-2  |      |
| Di-n-octylphthalate                   | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate            | ND ug/L          |  | 5.2                       | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 117-81-7  |      |
| Fluoranthene                          | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 206-44-0  |      |
| Fluorene                              | ND ug/L          |  | 10.4                      | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 86-73-7   |      |
| Hexachloro-1,3-butadiene              | ND ug/L          |  | 5.2                       | 1                        | 07/09/14 13:01 | 07/10/14 03:17 | 87-68-3   |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

**Sample: TMW-5**      **Lab ID: 50100317005**      Collected: 07/02/14 14:00      Received: 07/03/14 09:15      Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8270 MSSV Semivolatile Organic**      Analytical Method: EPA 8270      Preparation Method: EPA 3510

|                              |         |  |        |   |                |                |           |  |
|------------------------------|---------|--|--------|---|----------------|----------------|-----------|--|
| Hexachlorobenzene            | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 118-74-1  |  |
| Hexachlorocyclopentadiene    | ND ug/L |  | 20.8   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 77-47-4   |  |
| Hexachloroethane             | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 67-72-1   |  |
| Indeno(1,2,3-cd)pyrene       | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 193-39-5  |  |
| Isophorone                   | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 78-59-1   |  |
| 2-Methylnaphthalene          | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 91-57-6   |  |
| 2-Methylphenol(o-Cresol)     | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 95-48-7   |  |
| 3&4-Methylphenol(m&p Cresol) | ND ug/L |  | 20.8   | 1 | 07/09/14 13:01 | 07/10/14 03:17 |           |  |
| Naphthalene                  | ND ug/L |  | 5.2    | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 91-20-3   |  |
| 2-Nitroaniline               | ND ug/L |  | 52.1   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 88-74-4   |  |
| 3-Nitroaniline               | ND ug/L |  | 52.1   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 99-09-2   |  |
| 4-Nitroaniline               | ND ug/L |  | 52.1   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 100-01-6  |  |
| Nitrobenzene                 | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 98-95-3   |  |
| 2-Nitrophenol                | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 88-75-5   |  |
| 4-Nitrophenol                | ND ug/L |  | 52.1   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 100-02-7  |  |
| N-Nitroso-di-n-propylamine   | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 621-64-7  |  |
| N-Nitrosodiphenylamine       | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 86-30-6   |  |
| Pentachlorophenol            | ND ug/L |  | 52.1   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 87-86-5   |  |
| Phenanthrene                 | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 85-01-8   |  |
| Phenol                       | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 108-95-2  |  |
| Pyrene                       | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 129-00-0  |  |
| 2,4,5-Trichlorophenol        | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 95-95-4   |  |
| 2,4,6-Trichlorophenol        | ND ug/L |  | 10.4   | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 88-06-2   |  |
| <b>Surrogates</b>            |         |  |        |   |                |                |           |  |
| Nitrobenzene-d5 (S)          | 84 %.   |  | 29-126 | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 4165-60-0 |  |
| 2-Fluorobiphenyl (S)         | 85 %.   |  | 31-118 | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 321-60-8  |  |
| p-Terphenyl-d14 (S)          | 58 %.   |  | 28-129 | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 1718-51-0 |  |
| Phenol-d5 (S)                | 20 %.   |  | 10-47  | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 4165-62-2 |  |
| 2-Fluorophenol (S)           | 32 %.   |  | 10-67  | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 367-12-4  |  |
| 2,4,6-Tribromophenol (S)     | 103 %.  |  | 31-161 | 1 | 07/09/14 13:01 | 07/10/14 03:17 | 118-79-6  |  |

**8260 MSV**

Analytical Method: EPA 8260

|                      |         |  |      |   |  |                |          |  |
|----------------------|---------|--|------|---|--|----------------|----------|--|
| Acetone              | ND ug/L |  | 100  | 1 |  | 07/16/14 04:42 | 67-64-1  |  |
| Acrolein             | ND ug/L |  | 50.0 | 1 |  | 07/16/14 04:42 | 107-02-8 |  |
| Acrylonitrile        | ND ug/L |  | 100  | 1 |  | 07/16/14 04:42 | 107-13-1 |  |
| Benzene              | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 71-43-2  |  |
| Bromobenzene         | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 108-86-1 |  |
| Bromochloromethane   | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 74-97-5  |  |
| Bromodichloromethane | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 75-27-4  |  |
| Bromoform            | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 75-25-2  |  |
| Bromomethane         | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 74-83-9  |  |
| 2-Butanone (MEK)     | ND ug/L |  | 25.0 | 1 |  | 07/16/14 04:42 | 78-93-3  |  |
| n-Butylbenzene       | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 104-51-8 |  |
| sec-Butylbenzene     | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 135-98-8 |  |
| tert-Butylbenzene    | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 98-06-6  |  |
| Carbon disulfide     | ND ug/L |  | 10.0 | 1 |  | 07/16/14 04:42 | 75-15-0  |  |
| Carbon tetrachloride | ND ug/L |  | 5.0  | 1 |  | 07/16/14 04:42 | 56-23-5  |  |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-5</b>        | Lab ID: <b>50100317005</b> | Collected: 07/02/14 14:00   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|----------------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results                    | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                            | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 108-90-7   |      |
| Chloroethane                | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 75-00-3    |      |
| Chloroform                  | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 67-66-3    |      |
| Chloromethane               | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 74-87-3    |      |
| 2-Chlorotoluene             | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 95-49-8    |      |
| 4-Chlorotoluene             | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 106-43-4   |      |
| Dibromochloromethane        | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 106-93-4   |      |
| Dibromomethane              | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND                         | ug/L                        | 100                      | 1             |          | 07/16/14 04:42 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 10061-02-6 |      |
| Ethylbenzene                | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 100-41-4   |      |
| Ethyl methacrylate          | ND                         | ug/L                        | 100                      | 1             |          | 07/16/14 04:42 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 87-68-3    |      |
| n-Hexane                    | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 110-54-3   | N2   |
| 2-Hexanone                  | ND                         | ug/L                        | 25.0                     | 1             |          | 07/16/14 04:42 | 591-78-6   |      |
| Iodomethane                 | ND                         | ug/L                        | 10.0                     | 1             |          | 07/16/14 04:42 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 98-82-8    |      |
| p-Isopropyltoluene          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 99-87-6    |      |
| Methylene Chloride          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND                         | ug/L                        | 25.0                     | 1             |          | 07/16/14 04:42 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND                         | ug/L                        | 4.0                      | 1             |          | 07/16/14 04:42 | 1634-04-4  |      |
| Naphthalene                 | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 91-20-3    |      |
| n-Propylbenzene             | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 103-65-1   |      |
| Styrene                     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 79-34-5    |      |
| Tetrachloroethene           | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 127-18-4   |      |
| Toluene                     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 04:42 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-5</b>     |         | Lab ID: <b>50100317005</b>  | Collected: 07/02/14 14:00 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 04:42 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 04:42 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 04:42 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 04:42 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 04:42 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L |                             | 50.0                      | 1                        |               | 07/16/14 04:42 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L |                             | 2.0                       | 1                        |               | 07/16/14 04:42 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L |                             | 10.0                      | 1                        |               | 07/16/14 04:42 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 98 %.   |                             | 79-116                    | 1                        |               | 07/16/14 04:42 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 90 %.   |                             | 80-114                    | 1                        |               | 07/16/14 04:42 | 460-00-4  |      |
| Toluene-d8 (S)           | 90 %.   |                             | 81-110                    | 1                        |               | 07/16/14 04:42 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-6</b>                  | Lab ID: <b>50100317006</b> | Collected: 07/02/14 13:30                                | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|---------------------------------------|----------------------------|--|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                            | Results                    | Units  | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                   |                            | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                          |               |                |                |           |      |
| Antimony                              | ND ug/L                    |  | 6.0                      | 1             | 07/08/14 14:55 | 07/10/14 12:32 | 7440-36-0 | CU   |
| Arsenic                               | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:32 | 7440-38-2 |      |
| Chromium                              | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:32 | 7440-47-3 |      |
| Cobalt                                | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:32 | 7440-48-4 |      |
| Iron                                  | <b>273</b> ug/L            |  | 100                      | 1             | 07/08/14 14:55 | 07/10/14 12:32 | 7439-89-6 |      |
| Lead                                  | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:32 | 7439-92-1 |      |
| Selenium                              | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:32 | 7782-49-2 |      |
| Thallium                              | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:32 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> |                            | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                          |               |                |                |           |      |
| Acenaphthene                          | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 83-32-9   |      |
| Acenaphthylene                        | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 208-96-8  |      |
| Anthracene                            | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 120-12-7  |      |
| Benzo(a)anthracene                    | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 56-55-3   |      |
| Benzo(a)pyrene                        | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 50-32-8   |      |
| Benzo(b)fluoranthene                  | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 205-99-2  |      |
| Benzo(g,h,i)perylene                  | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 191-24-2  |      |
| Benzo(k)fluoranthene                  | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 207-08-9  |      |
| Benzyl alcohol                        | ND ug/L                    |  | 21.5                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 100-51-6  |      |
| 4-Bromophenylphenyl ether             | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 101-55-3  |      |
| Butylbenzylphthalate                  | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 85-68-7   |      |
| 4-Chloro-3-methylphenol               | ND ug/L                    |  | 21.5                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 59-50-7   |      |
| 4-Chloroaniline                       | ND ug/L                    |  | 21.5                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane            | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 111-91-1  |      |
| bis(2-Chloroethyl) ether              | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 111-44-4  |      |
| bis(2chloro1methylethyl) ether        | ND ug/L                    |  | 5.4                      | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 108-60-1  |      |
| 2-Chloronaphthalene                   | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 91-58-7   |      |
| 2-Chlorophenol                        | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether            | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 7005-72-3 |      |
| Chrysene                              | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 218-01-9  |      |
| Dibenz(a,h)anthracene                 | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 53-70-3   |      |
| Dibenzofuran                          | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                | ND ug/L                    |  | 21.5                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 91-94-1   |      |
| 2,4-Dichlorophenol                    | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 120-83-2  |      |
| Diethylphthalate                      | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 84-66-2   |      |
| 2,4-Dimethylphenol                    | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 105-67-9  |      |
| Dimethylphthalate                     | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 131-11-3  |      |
| Di-n-butylphthalate                   | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol            | ND ug/L                    |  | 53.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 534-52-1  |      |
| 2,4-Dinitrophenol                     | ND ug/L                    |  | 53.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 51-28-5   |      |
| 2,4-Dinitrotoluene                    | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 121-14-2  |      |
| 2,6-Dinitrotoluene                    | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 606-20-2  |      |
| Di-n-octylphthalate                   | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate            | ND ug/L                    |  | 5.4                      | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 117-81-7  |      |
| Fluoranthene                          | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 206-44-0  |      |
| Fluorene                              | ND ug/L                    |  | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 86-73-7   |      |
| Hexachloro-1,3-butadiene              | ND ug/L                    |  | 5.4                      | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 87-68-3   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-6</b>                                     | Lab ID: <b>50100317006</b> | Collected: 07/02/14 13:30 | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|--|----------------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters   | Results                    | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b>                    |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                            |                           |                          |               |                |                |           |      |
| Hexachlorobenzene  | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | ND ug/L                    |                           | 21.5                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 77-47-4   |      |
| Hexachloroethane   | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 193-39-5  |      |
| Isophorone   | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | ND ug/L                    |                           | 21.5                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 |           |      |
| Naphthalene  | ND ug/L                    |                           | 5.4                      | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 91-20-3   |      |
| 2-Nitroaniline   | ND ug/L                    |                           | 53.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 88-74-4   |      |
| 3-Nitroaniline   | ND ug/L                    |                           | 53.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 99-09-2   |      |
| 4-Nitroaniline   | ND ug/L                    |                           | 53.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 100-01-6  |      |
| Nitrobenzene   | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 98-95-3   |      |
| 2-Nitrophenol  | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 88-75-5   |      |
| 4-Nitrophenol  | ND ug/L                    |                           | 53.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine                               | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 86-30-6   |      |
| Pentachlorophenol  | ND ug/L                    |                           | 53.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 87-86-5   |      |
| Phenanthrene   | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 85-01-8   |      |
| Phenol   | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 108-95-2  |      |
| Pyrene   | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                                    | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | ND ug/L                    |                           | 10.8                     | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 88-06-2   |      |
| <b>Surrogates</b>  |                            |                           |                          |               |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 83 %.                      |                           | 29-126                   | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                                     | 84 %.                      |                           | 31-118                   | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 65 %.                      |                           | 28-129                   | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 1718-51-0 |      |
| Phenol-d5 (S)  | 19 %.                      |                           | 10-47                    | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 31 %.                      |                           | 10-67                    | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 95 %.                      |                           | 31-161                   | 1             | 07/09/14 13:01 | 07/10/14 03:39 | 118-79-6  |      |
| <b>8260 MSV</b>  |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8260                              |                            |                           |                          |               |                |                |           |      |
| Acetone  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 05:14 | 67-64-1   |      |
| Acrolein   | ND ug/L                    |                           | 50.0                     | 1             |                | 07/16/14 05:14 | 107-02-8  |      |
| Acrylonitrile  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 05:14 | 107-13-1  |      |
| Benzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 71-43-2   |      |
| Bromobenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 108-86-1  |      |
| Bromochloromethane                                       | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 74-97-5   |      |
| Bromodichloromethane                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 75-27-4   |      |
| Bromoform  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 75-25-2   |      |
| Bromomethane   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 74-83-9   |      |
| 2-Butanone (MEK)   | ND ug/L                    |                           | 25.0                     | 1             |                | 07/16/14 05:14 | 78-93-3   |      |
| n-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 104-51-8  |      |
| sec-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 135-98-8  |      |
| tert-Butylbenzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 98-06-6   |      |
| Carbon disulfide   | ND ug/L                    |                           | 10.0                     | 1             |                | 07/16/14 05:14 | 75-15-0   |      |
| Carbon tetrachloride                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 05:14 | 56-23-5   |      |

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### ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-6</b>        | Lab ID: <b>50100317006</b> | Collected: 07/02/14 13:30   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|----------------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results                    | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                            | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 108-90-7   |      |
| Chloroethane                | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 75-00-3    |      |
| Chloroform                  | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 67-66-3    |      |
| Chloromethane               | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 74-87-3    |      |
| 2-Chlorotoluene             | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 95-49-8    |      |
| 4-Chlorotoluene             | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 106-43-4   |      |
| Dibromochloromethane        | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 106-93-4   |      |
| Dibromomethane              | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND                         | ug/L                        | 100                      | 1             |          | 07/16/14 05:14 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 10061-02-6 |      |
| Ethylbenzene                | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 100-41-4   |      |
| Ethyl methacrylate          | ND                         | ug/L                        | 100                      | 1             |          | 07/16/14 05:14 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 87-68-3    |      |
| n-Hexane                    | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 110-54-3   | N2   |
| 2-Hexanone                  | ND                         | ug/L                        | 25.0                     | 1             |          | 07/16/14 05:14 | 591-78-6   |      |
| Iodomethane                 | ND                         | ug/L                        | 10.0                     | 1             |          | 07/16/14 05:14 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 98-82-8    |      |
| p-Isopropyltoluene          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 99-87-6    |      |
| Methylene Chloride          | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND                         | ug/L                        | 25.0                     | 1             |          | 07/16/14 05:14 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND                         | ug/L                        | 4.0                      | 1             |          | 07/16/14 05:14 | 1634-04-4  |      |
| Naphthalene                 | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 91-20-3    |      |
| n-Propylbenzene             | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 103-65-1   |      |
| Styrene                     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 79-34-5    |      |
| Tetrachloroethene           | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 127-18-4   |      |
| Toluene                     | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | <b>9.6</b>                 | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND                         | ug/L                        | 5.0                      | 1             |          | 07/16/14 05:14 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: TMW-6            |         | Lab ID: 50100317006         | Collected: 07/02/14 13:30 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:14 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:14 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:14 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:14 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:14 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L |                             | 50.0                      | 1                        |               | 07/16/14 05:14 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L |                             | 2.0                       | 1                        |               | 07/16/14 05:14 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L |                             | 10.0                      | 1                        |               | 07/16/14 05:14 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 104 %.  |                             | 79-116                    | 1                        |               | 07/16/14 05:14 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 92 %.   |                             | 80-114                    | 1                        |               | 07/16/14 05:14 | 460-00-4  |      |
| Toluene-d8 (S)           | 91 %.   |                             | 81-110                    | 1                        |               | 07/16/14 05:14 | 2037-26-5 |      |

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### ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: TMW-7                         | Lab ID: 50100317007 | Collected: 07/02/14 12:30                                | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|---------------------------------------|---------------------|--|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                            | Results             | Units  | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                   |                     | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                          |               |                |                |           |      |
| Antimony                              | ND ug/L             |  | 6.0                      | 1             | 07/08/14 14:55 | 07/10/14 12:35 | 7440-36-0 | CU   |
| Arsenic                               | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:35 | 7440-38-2 |      |
| Chromium                              | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:35 | 7440-47-3 |      |
| Cobalt                                | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:35 | 7440-48-4 |      |
| Iron                                  | 911 ug/L            |  | 100                      | 1             | 07/08/14 14:55 | 07/10/14 12:35 | 7439-89-6 |      |
| Lead                                  | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:35 | 7439-92-1 |      |
| Selenium                              | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:35 | 7782-49-2 |      |
| Thallium                              | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 12:35 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> |                     | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                          |               |                |                |           |      |
| Acenaphthene                          | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 83-32-9   |      |
| Acenaphthylene                        | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 208-96-8  |      |
| Anthracene                            | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 120-12-7  |      |
| Benzo(a)anthracene                    | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 56-55-3   |      |
| Benzo(a)pyrene                        | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 50-32-8   |      |
| Benzo(b)fluoranthene                  | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 205-99-2  |      |
| Benzo(g,h,i)perylene                  | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 191-24-2  |      |
| Benzo(k)fluoranthene                  | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 207-08-9  |      |
| Benzyl alcohol                        | ND ug/L             |  | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 100-51-6  |      |
| 4-Bromophenylphenyl ether             | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 101-55-3  |      |
| Butylbenzylphthalate                  | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 85-68-7   |      |
| 4-Chloro-3-methylphenol               | ND ug/L             |  | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 59-50-7   |      |
| 4-Chloroaniline                       | ND ug/L             |  | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane            | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 111-91-1  |      |
| bis(2-Chloroethyl) ether              | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 111-44-4  |      |
| bis(2chloro1methylethyl) ether        | ND ug/L             |  | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 108-60-1  |      |
| 2-Chloronaphthalene                   | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 91-58-7   |      |
| 2-Chlorophenol                        | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether            | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 7005-72-3 |      |
| Chrysene                              | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 218-01-9  |      |
| Dibenz(a,h)anthracene                 | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 53-70-3   |      |
| Dibenzofuran                          | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                | ND ug/L             |  | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 91-94-1   |      |
| 2,4-Dichlorophenol                    | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 120-83-2  |      |
| Diethylphthalate                      | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 84-66-2   |      |
| 2,4-Dimethylphenol                    | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 105-67-9  |      |
| Dimethylphthalate                     | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 131-11-3  |      |
| Di-n-butylphthalate                   | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol            | ND ug/L             |  | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 534-52-1  |      |
| 2,4-Dinitrophenol                     | ND ug/L             |  | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 51-28-5   |      |
| 2,4-Dinitrotoluene                    | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 121-14-2  |      |
| 2,6-Dinitrotoluene                    | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 606-20-2  |      |
| Di-n-octylphthalate                   | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate            | ND ug/L             |  | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 117-81-7  |      |
| Fluoranthene                          | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 206-44-0  |      |
| Fluorene                              | ND ug/L             |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 86-73-7   |      |
| Hexachloro-1,3-butadiene              | ND ug/L             |  | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 04:02 | 87-68-3   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-7</b>                  |         | Lab ID: <b>50100317007</b>                               | Collected: 07/02/14 12:30 | Received: 07/03/14 09:15 | Matrix: Water  |                |           |      |
|---------------------------------------|---------|--|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                            | Results | Units  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                           |                          |                |                |           |      |
| Hexachlorobenzene                     | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 118-74-1  |      |
| Hexachlorocyclopentadiene             | ND ug/L |  | 20.6                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 77-47-4   |      |
| Hexachloroethane                      | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 193-39-5  |      |
| Isophorone                            | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 78-59-1   |      |
| 2-Methylnaphthalene                   | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)              | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)          | ND ug/L |  | 20.6                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 |           |      |
| Naphthalene                           | ND ug/L |  | 5.2                       | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 91-20-3   |      |
| 2-Nitroaniline                        | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 88-74-4   |      |
| 3-Nitroaniline                        | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 99-09-2   |      |
| 4-Nitroaniline                        | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 100-01-6  |      |
| Nitrobenzene                          | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 98-95-3   |      |
| 2-Nitrophenol                         | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 88-75-5   |      |
| 4-Nitrophenol                         | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine            | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 621-64-7  |      |
| N-Nitrosodiphenylamine                | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 86-30-6   |      |
| Pentachlorophenol                     | ND ug/L |  | 51.5                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 87-86-5   |      |
| Phenanthrene                          | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 85-01-8   |      |
| Phenol                                | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 108-95-2  |      |
| Pyrene                                | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                 | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                 | ND ug/L |  | 10.3                      | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 88-06-2   |      |
| <b>Surrogates</b>                     |         |  |                           |                          |                |                |           |      |
| Nitrobenzene-d5 (S)                   | 89 %.   |  | 29-126                    | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                  | 91 %.   |  | 31-118                    | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                   | 63 %.   |  | 28-129                    | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 1718-51-0 |      |
| Phenol-d5 (S)                         | 20 %.   |  | 10-47                     | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 4165-62-2 |      |
| 2-Fluorophenol (S)                    | 33 %.   |  | 10-67                     | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)              | 101 %.  |  | 31-161                    | 1                        | 07/09/14 13:01 | 07/10/14 04:02 | 118-79-6  |      |
| <b>8260 MSV</b>                       |         | Analytical Method: EPA 8260                              |                           |                          |                |                |           |      |
| Acetone                               | ND ug/L |  | 100                       | 1                        |                | 07/16/14 05:46 | 67-64-1   |      |
| Acrolein                              | ND ug/L |  | 50.0                      | 1                        |                | 07/16/14 05:46 | 107-02-8  |      |
| Acrylonitrile                         | ND ug/L |  | 100                       | 1                        |                | 07/16/14 05:46 | 107-13-1  |      |
| Benzene                               | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 71-43-2   |      |
| Bromobenzene                          | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 108-86-1  |      |
| Bromochloromethane                    | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 74-97-5   |      |
| Bromodichloromethane                  | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 75-27-4   |      |
| Bromoform                             | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 75-25-2   |      |
| Bromomethane                          | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 74-83-9   |      |
| 2-Butanone (MEK)                      | ND ug/L |  | 25.0                      | 1                        |                | 07/16/14 05:46 | 78-93-3   |      |
| n-Butylbenzene                        | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 104-51-8  |      |
| sec-Butylbenzene                      | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 135-98-8  |      |
| tert-Butylbenzene                     | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 98-06-6   |      |
| Carbon disulfide                      | ND ug/L |  | 10.0                      | 1                        |                | 07/16/14 05:46 | 75-15-0   |      |
| Carbon tetrachloride                  | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 05:46 | 56-23-5   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-7</b>        | Lab ID: <b>50100317007</b>  | Collected: 07/02/14 12:30 | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results                     | Units                     | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             | Analytical Method: EPA 8260 |                           |                          |               |          |                |            |      |
| Chlorobenzene               | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 108-90-7   |      |
| Chloroethane                | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 75-00-3    |      |
| Chloroform                  | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 67-66-3    |      |
| Chloromethane               | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 74-87-3    |      |
| 2-Chlorotoluene             | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 95-49-8    |      |
| 4-Chlorotoluene             | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 106-43-4   |      |
| Dibromochloromethane        | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 106-93-4   |      |
| Dibromomethane              | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND                          | ug/L                      | 100                      | 1             |          | 07/16/14 05:46 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 10061-02-6 |      |
| Ethylbenzene                | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 100-41-4   |      |
| Ethyl methacrylate          | ND                          | ug/L                      | 100                      | 1             |          | 07/16/14 05:46 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 87-68-3    |      |
| n-Hexane                    | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 110-54-3   | N2   |
| 2-Hexanone                  | ND                          | ug/L                      | 25.0                     | 1             |          | 07/16/14 05:46 | 591-78-6   |      |
| Iodomethane                 | ND                          | ug/L                      | 10.0                     | 1             |          | 07/16/14 05:46 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 98-82-8    |      |
| p-Isopropyltoluene          | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 99-87-6    |      |
| Methylene Chloride          | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND                          | ug/L                      | 25.0                     | 1             |          | 07/16/14 05:46 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND                          | ug/L                      | 4.0                      | 1             |          | 07/16/14 05:46 | 1634-04-4  |      |
| Naphthalene                 | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 91-20-3    |      |
| n-Propylbenzene             | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 103-65-1   |      |
| Styrene                     | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 79-34-5    |      |
| Tetrachloroethene           | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 127-18-4   |      |
| Toluene                     | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND                          | ug/L                      | 5.0                      | 1             |          | 07/16/14 05:46 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 50100317

| Sample: <b>TMW-7</b>     |         | Lab ID: <b>50100317007</b>  | Collected: 07/02/14 12:30 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:46 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:46 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:46 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:46 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 05:46 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L |                             | 50.0                      | 1                        |               | 07/16/14 05:46 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L |                             | 2.0                       | 1                        |               | 07/16/14 05:46 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L |                             | 10.0                      | 1                        |               | 07/16/14 05:46 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 99 %.   |                             | 79-116                    | 1                        |               | 07/16/14 05:46 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 88 %.   |                             | 80-114                    | 1                        |               | 07/16/14 05:46 | 460-00-4  |      |
| Toluene-d8 (S)           | 90 %.   |                             | 81-110                    | 1                        |               | 07/16/14 05:46 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 50100317

**Sample: TMW-8**      **Lab ID: 50100317008**      Collected: 07/02/14 14:50      Received: 07/03/14 09:15      Matrix: Water

| Parameters  | Results     | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|-------------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b> Analytical Method: EPA 6010      Preparation Method: EPA 3010                   |             |       |              |    |                |                |           |      |
| Antimony  | ND          | ug/L  | 6.0          | 1  | 07/08/14 14:55 | 07/10/14 12:38 | 7440-36-0 | CU   |
| Arsenic   | ND          | ug/L  | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:38 | 7440-38-2 |      |
| Chromium  | ND          | ug/L  | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:38 | 7440-47-3 |      |
| Cobalt  | ND          | ug/L  | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:38 | 7440-48-4 |      |
| Iron  | <b>1640</b> | ug/L  | 100          | 1  | 07/08/14 14:55 | 07/10/14 12:38 | 7439-89-6 |      |
| Lead  | ND          | ug/L  | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:38 | 7439-92-1 |      |
| Selenium  | ND          | ug/L  | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:38 | 7782-49-2 |      |
| Thallium  | ND          | ug/L  | 10.0         | 1  | 07/08/14 14:55 | 07/10/14 12:38 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270      Preparation Method: EPA 3510 |             |       |              |    |                |                |           |      |
| Acenaphthene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 83-32-9   |      |
| Acenaphthylene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 208-96-8  |      |
| Anthracene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 120-12-7  |      |
| Benzo(a)anthracene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 56-55-3   |      |
| Benzo(a)pyrene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 50-32-8   |      |
| Benzo(b)fluoranthene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 191-24-2  |      |
| Benzo(k)fluoranthene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 207-08-9  |      |
| Benzyl alcohol  | ND          | ug/L  | 20.6         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 100-51-6  |      |
| 4-Bromophenylphenyl ether   | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 101-55-3  |      |
| Butylbenzylphthalate  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 85-68-7   |      |
| 4-Chloro-3-methylphenol   | ND          | ug/L  | 20.6         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 59-50-7   |      |
| 4-Chloroaniline   | ND          | ug/L  | 20.6         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 111-91-1  |      |
| bis(2-Chloroethyl) ether  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 111-44-4  |      |
| bis(2chloro1methylethyl) ether  | ND          | ug/L  | 5.2          | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 108-60-1  |      |
| 2-Chloronaphthalene   | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 91-58-7   |      |
| 2-Chlorophenol  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 7005-72-3 |      |
| Chrysene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 53-70-3   |      |
| Dibenzofuran  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine  | ND          | ug/L  | 20.6         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 91-94-1   |      |
| 2,4-Dichlorophenol  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 120-83-2  |      |
| Diethylphthalate  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 84-66-2   |      |
| 2,4-Dimethylphenol  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 105-67-9  |      |
| Dimethylphthalate   | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 131-11-3  |      |
| Di-n-butylphthalate   | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol  | ND          | ug/L  | 51.5         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 534-52-1  |      |
| 2,4-Dinitrophenol   | ND          | ug/L  | 51.5         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 606-20-2  |      |
| Di-n-octylphthalate   | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate  | ND          | ug/L  | 5.2          | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 117-81-7  |      |
| Fluoranthene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 206-44-0  |      |
| Fluorene  | ND          | ug/L  | 10.3         | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 86-73-7   |      |
| Hexachloro-1,3-butadiene  | ND          | ug/L  | 5.2          | 1  | 07/09/14 13:01 | 07/10/14 04:24 | 87-68-3   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

**Sample: TMW-8**      **Lab ID: 50100317008**      Collected: 07/02/14 14:50      Received: 07/03/14 09:15      Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8270 MSSV Semivolatile Organic**      Analytical Method: EPA 8270      Preparation Method: EPA 3510

|                              |         |  |        |   |                |                |           |  |
|------------------------------|---------|--|--------|---|----------------|----------------|-----------|--|
| Hexachlorobenzene            | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 118-74-1  |  |
| Hexachlorocyclopentadiene    | ND ug/L |  | 20.6   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 77-47-4   |  |
| Hexachloroethane             | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 67-72-1   |  |
| Indeno(1,2,3-cd)pyrene       | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 193-39-5  |  |
| Isophorone                   | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 78-59-1   |  |
| 2-Methylnaphthalene          | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 91-57-6   |  |
| 2-Methylphenol(o-Cresol)     | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 95-48-7   |  |
| 3&4-Methylphenol(m&p Cresol) | ND ug/L |  | 20.6   | 1 | 07/09/14 13:01 | 07/10/14 04:24 |           |  |
| Naphthalene                  | ND ug/L |  | 5.2    | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 91-20-3   |  |
| 2-Nitroaniline               | ND ug/L |  | 51.5   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 88-74-4   |  |
| 3-Nitroaniline               | ND ug/L |  | 51.5   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 99-09-2   |  |
| 4-Nitroaniline               | ND ug/L |  | 51.5   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 100-01-6  |  |
| Nitrobenzene                 | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 98-95-3   |  |
| 2-Nitrophenol                | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 88-75-5   |  |
| 4-Nitrophenol                | ND ug/L |  | 51.5   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 100-02-7  |  |
| N-Nitroso-di-n-propylamine   | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 621-64-7  |  |
| N-Nitrosodiphenylamine       | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 86-30-6   |  |
| Pentachlorophenol            | ND ug/L |  | 51.5   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 87-86-5   |  |
| Phenanthrene                 | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 85-01-8   |  |
| Phenol                       | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 108-95-2  |  |
| Pyrene                       | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 129-00-0  |  |
| 2,4,5-Trichlorophenol        | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 95-95-4   |  |
| 2,4,6-Trichlorophenol        | ND ug/L |  | 10.3   | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 88-06-2   |  |
| <b>Surrogates</b>            |         |  |        |   |                |                |           |  |
| Nitrobenzene-d5 (S)          | 72 %.   |  | 29-126 | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 4165-60-0 |  |
| 2-Fluorobiphenyl (S)         | 74 %.   |  | 31-118 | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 321-60-8  |  |
| p-Terphenyl-d14 (S)          | 50 %.   |  | 28-129 | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 1718-51-0 |  |
| Phenol-d5 (S)                | 16 %.   |  | 10-47  | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 4165-62-2 |  |
| 2-Fluorophenol (S)           | 26 %.   |  | 10-67  | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 367-12-4  |  |
| 2,4,6-Tribromophenol (S)     | 83 %.   |  | 31-161 | 1 | 07/09/14 13:01 | 07/10/14 04:24 | 118-79-6  |  |

**8260 MSV**      Analytical Method: EPA 8260

|                      |         |  |      |   |  |                |          |  |
|----------------------|---------|--|------|---|--|----------------|----------|--|
| Acetone              | ND ug/L |  | 100  | 1 |  | 07/16/14 06:19 | 67-64-1  |  |
| Acrolein             | ND ug/L |  | 50.0 | 1 |  | 07/16/14 06:19 | 107-02-8 |  |
| Acrylonitrile        | ND ug/L |  | 100  | 1 |  | 07/16/14 06:19 | 107-13-1 |  |
| Benzene              | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 71-43-2  |  |
| Bromobenzene         | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 108-86-1 |  |
| Bromochloromethane   | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 74-97-5  |  |
| Bromodichloromethane | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 75-27-4  |  |
| Bromoform            | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 75-25-2  |  |
| Bromomethane         | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 74-83-9  |  |
| 2-Butanone (MEK)     | ND ug/L |  | 25.0 | 1 |  | 07/16/14 06:19 | 78-93-3  |  |
| n-Butylbenzene       | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 104-51-8 |  |
| sec-Butylbenzene     | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 135-98-8 |  |
| tert-Butylbenzene    | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 98-06-6  |  |
| Carbon disulfide     | ND ug/L |  | 10.0 | 1 |  | 07/16/14 06:19 | 75-15-0  |  |
| Carbon tetrachloride | ND ug/L |  | 5.0  | 1 |  | 07/16/14 06:19 | 56-23-5  |  |

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### ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-8</b>        | Lab ID: <b>50100317008</b> | Collected: 07/02/14 14:50   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|----------------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results                    | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                            | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 108-90-7   |      |
| Chloroethane                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 75-00-3    |      |
| Chloroform                  | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 67-66-3    |      |
| Chloromethane               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 74-87-3    |      |
| 2-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 95-49-8    |      |
| 4-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 106-43-4   |      |
| Dibromochloromethane        | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 106-93-4   |      |
| Dibromomethane              | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 06:19 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 100-41-4   |      |
| Ethyl methacrylate          | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 06:19 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 87-68-3    |      |
| n-Hexane                    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 110-54-3   | N2   |
| 2-Hexanone                  | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 06:19 | 591-78-6   |      |
| Iodomethane                 | ND ug/L                    |                             | 10.0                     | 1             |          | 07/16/14 06:19 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 98-82-8    |      |
| p-Isopropyltoluene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 99-87-6    |      |
| Methylene Chloride          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 06:19 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND ug/L                    |                             | 4.0                      | 1             |          | 07/16/14 06:19 | 1634-04-4  |      |
| Naphthalene                 | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 91-20-3    |      |
| n-Propylbenzene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 103-65-1   |      |
| Styrene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 79-34-5    |      |
| Tetrachloroethene           | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 127-18-4   |      |
| Toluene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:19 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 50100317

| Sample: <b>TMW-8</b>     |         | Lab ID: <b>50100317008</b>  | Collected: 07/02/14 14:50 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:19 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:19 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:19 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:19 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:19 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L |                             | 50.0                      | 1                        |               | 07/16/14 06:19 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L |                             | 2.0                       | 1                        |               | 07/16/14 06:19 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L |                             | 10.0                      | 1                        |               | 07/16/14 06:19 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 100 %.  |                             | 79-116                    | 1                        |               | 07/16/14 06:19 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 93 %.   |                             | 80-114                    | 1                        |               | 07/16/14 06:19 | 460-00-4  |      |
| Toluene-d8 (S)           | 90 %.   |                             | 81-110                    | 1                        |               | 07/16/14 06:19 | 2037-26-5 |      |

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### ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: TMW-9                         |          | Lab ID: 50100317009                                      | Collected: 07/02/14 11:05 | Received: 07/03/14 09:15 | Matrix: Water  |                |           |      |
|---------------------------------------|----------|--|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                            | Results  | Units  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                   |          | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |           |      |
| Antimony                              | ND ug/L  |  | 6.0                       | 1                        | 07/08/14 14:55 | 07/10/14 12:41 | 7440-36-0 | CU   |
| Arsenic                               | ND ug/L  |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:41 | 7440-38-2 |      |
| Chromium                              | ND ug/L  |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:41 | 7440-47-3 |      |
| Cobalt                                | ND ug/L  |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:41 | 7440-48-4 |      |
| Iron                                  | 911 ug/L |  | 100                       | 1                        | 07/08/14 14:55 | 07/10/14 12:41 | 7439-89-6 |      |
| Lead                                  | ND ug/L  |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:41 | 7439-92-1 |      |
| Selenium                              | ND ug/L  |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:41 | 7782-49-2 |      |
| Thallium                              | ND ug/L  |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 12:41 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> |          | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                           |                          |                |                |           |      |
| Acenaphthene                          | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 83-32-9   |      |
| Acenaphthylene                        | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 208-96-8  |      |
| Anthracene                            | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 120-12-7  |      |
| Benzo(a)anthracene                    | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 56-55-3   |      |
| Benzo(a)pyrene                        | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 50-32-8   |      |
| Benzo(b)fluoranthene                  | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 205-99-2  |      |
| Benzo(g,h,i)perylene                  | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 191-24-2  |      |
| Benzo(k)fluoranthene                  | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 207-08-9  |      |
| Benzyl alcohol                        | ND ug/L  |  | 20.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 100-51-6  |      |
| 4-Bromophenylphenyl ether             | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 101-55-3  |      |
| Butylbenzylphthalate                  | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 85-68-7   |      |
| 4-Chloro-3-methylphenol               | ND ug/L  |  | 20.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 59-50-7   |      |
| 4-Chloroaniline                       | ND ug/L  |  | 20.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane            | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 111-91-1  |      |
| bis(2-Chloroethyl) ether              | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 111-44-4  |      |
| bis(2chloro1methylethyl) ether        | ND ug/L  |  | 5.0                       | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 108-60-1  |      |
| 2-Chloronaphthalene                   | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 91-58-7   |      |
| 2-Chlorophenol                        | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether            | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 7005-72-3 |      |
| Chrysene                              | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 218-01-9  |      |
| Dibenz(a,h)anthracene                 | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 53-70-3   |      |
| Dibenzofuran                          | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                | ND ug/L  |  | 20.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 91-94-1   |      |
| 2,4-Dichlorophenol                    | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 120-83-2  |      |
| Diethylphthalate                      | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 84-66-2   |      |
| 2,4-Dimethylphenol                    | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 105-67-9  |      |
| Dimethylphthalate                     | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 131-11-3  |      |
| Di-n-butylphthalate                   | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol            | ND ug/L  |  | 50.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 534-52-1  |      |
| 2,4-Dinitrophenol                     | ND ug/L  |  | 50.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 51-28-5   |      |
| 2,4-Dinitrotoluene                    | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 121-14-2  |      |
| 2,6-Dinitrotoluene                    | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 606-20-2  |      |
| Di-n-octylphthalate                   | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate            | ND ug/L  |  | 5.0                       | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 117-81-7  |      |
| Fluoranthene                          | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 206-44-0  |      |
| Fluorene                              | ND ug/L  |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 86-73-7   |      |
| Hexachloro-1,3-butadiene              | ND ug/L  |  | 5.0                       | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 87-68-3   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast  
Pace Project No.: 50100317

| Sample: <b>TMW-9</b>                  |         | Lab ID: <b>50100317009</b>                               | Collected: 07/02/14 11:05 | Received: 07/03/14 09:15 | Matrix: Water  |                |           |      |
|---------------------------------------|---------|--|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                            | Results | Units  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                           |                          |                |                |           |      |
| Hexachlorobenzene                     | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 118-74-1  |      |
| Hexachlorocyclopentadiene             | ND ug/L |  | 20.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 77-47-4   |      |
| Hexachloroethane                      | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 193-39-5  |      |
| Isophorone                            | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 78-59-1   |      |
| 2-Methylnaphthalene                   | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)              | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)          | ND ug/L |  | 20.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 |           |      |
| Naphthalene                           | ND ug/L |  | 5.0                       | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 91-20-3   |      |
| 2-Nitroaniline                        | ND ug/L |  | 50.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 88-74-4   |      |
| 3-Nitroaniline                        | ND ug/L |  | 50.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 99-09-2   |      |
| 4-Nitroaniline                        | ND ug/L |  | 50.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 100-01-6  |      |
| Nitrobenzene                          | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 98-95-3   |      |
| 2-Nitrophenol                         | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 88-75-5   |      |
| 4-Nitrophenol                         | ND ug/L |  | 50.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine            | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 621-64-7  |      |
| N-Nitrosodiphenylamine                | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 86-30-6   |      |
| Pentachlorophenol                     | ND ug/L |  | 50.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 87-86-5   |      |
| Phenanthrene                          | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 85-01-8   |      |
| Phenol                                | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 108-95-2  |      |
| Pyrene                                | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                 | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                 | ND ug/L |  | 10.0                      | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 88-06-2   |      |
| <b>Surrogates</b>                     |         |  |                           |                          |                |                |           |      |
| Nitrobenzene-d5 (S)                   | 82 %.   |  | 29-126                    | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                  | 81 %.   |  | 31-118                    | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                   | 56 %.   |  | 28-129                    | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 1718-51-0 |      |
| Phenol-d5 (S)                         | 18 %.   |  | 10-47                     | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 4165-62-2 |      |
| 2-Fluorophenol (S)                    | 29 %.   |  | 10-67                     | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)              | 92 %.   |  | 31-161                    | 1                        | 07/09/14 13:01 | 07/10/14 04:47 | 118-79-6  |      |
| <b>8260 MSV</b>                       |         | Analytical Method: EPA 8260                              |                           |                          |                |                |           |      |
| Acetone                               | ND ug/L |  | 100                       | 1                        |                | 07/16/14 06:51 | 67-64-1   |      |
| Acrolein                              | ND ug/L |  | 50.0                      | 1                        |                | 07/16/14 06:51 | 107-02-8  |      |
| Acrylonitrile                         | ND ug/L |  | 100                       | 1                        |                | 07/16/14 06:51 | 107-13-1  |      |
| Benzene                               | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 71-43-2   |      |
| Bromobenzene                          | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 108-86-1  |      |
| Bromochloromethane                    | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 74-97-5   |      |
| Bromodichloromethane                  | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 75-27-4   |      |
| Bromoform                             | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 75-25-2   |      |
| Bromomethane                          | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 74-83-9   |      |
| 2-Butanone (MEK)                      | ND ug/L |  | 25.0                      | 1                        |                | 07/16/14 06:51 | 78-93-3   |      |
| n-Butylbenzene                        | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 104-51-8  |      |
| sec-Butylbenzene                      | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 135-98-8  |      |
| tert-Butylbenzene                     | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 98-06-6   |      |
| Carbon disulfide                      | ND ug/L |  | 10.0                      | 1                        |                | 07/16/14 06:51 | 75-15-0   |      |
| Carbon tetrachloride                  | ND ug/L |  | 5.0                       | 1                        |                | 07/16/14 06:51 | 56-23-5   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-9</b>        | Lab ID: <b>50100317009</b> | Collected: 07/02/14 11:05   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|----------------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results                    | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                            | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 108-90-7   |      |
| Chloroethane                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 75-00-3    |      |
| Chloroform                  | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 67-66-3    |      |
| Chloromethane               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 74-87-3    |      |
| 2-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 95-49-8    |      |
| 4-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 106-43-4   |      |
| Dibromochloromethane        | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 106-93-4   |      |
| Dibromomethane              | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 06:51 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 100-41-4   |      |
| Ethyl methacrylate          | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 06:51 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 87-68-3    |      |
| n-Hexane                    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 110-54-3   | N2   |
| 2-Hexanone                  | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 06:51 | 591-78-6   |      |
| Iodomethane                 | ND ug/L                    |                             | 10.0                     | 1             |          | 07/16/14 06:51 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 98-82-8    |      |
| p-Isopropyltoluene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 99-87-6    |      |
| Methylene Chloride          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 06:51 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND ug/L                    |                             | 4.0                      | 1             |          | 07/16/14 06:51 | 1634-04-4  |      |
| Naphthalene                 | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 91-20-3    |      |
| n-Propylbenzene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 103-65-1   |      |
| Styrene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 79-34-5    |      |
| Tetrachloroethene           | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 127-18-4   |      |
| Toluene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 06:51 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-9</b>     |         | Lab ID: <b>50100317009</b>  | Collected: 07/02/14 11:05 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:51 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:51 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:51 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:51 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 06:51 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L |                             | 50.0                      | 1                        |               | 07/16/14 06:51 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L |                             | 2.0                       | 1                        |               | 07/16/14 06:51 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L |                             | 10.0                      | 1                        |               | 07/16/14 06:51 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 101 %.  |                             | 79-116                    | 1                        |               | 07/16/14 06:51 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 89 %.   |                             | 80-114                    | 1                        |               | 07/16/14 06:51 | 460-00-4  |      |
| Toluene-d8 (S)           | 89 %.   |                             | 81-110                    | 1                        |               | 07/16/14 06:51 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-10</b>                 | Lab ID: <b>50100317010</b> | Collected: 07/02/14 10:20                                | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|---------------------------------------|----------------------------|--|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                            | Results                    | Units  | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                   |                            | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                          |               |                |                |           |      |
| Antimony                              | ND ug/L                    |  | 6.0                      | 1             | 07/08/14 14:55 | 07/10/14 13:02 | 7440-36-0 | CU   |
| Arsenic                               | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:02 | 7440-38-2 |      |
| Chromium                              | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:02 | 7440-47-3 |      |
| Cobalt                                | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:02 | 7440-48-4 |      |
| Iron                                  | <b>711</b> ug/L            |  | 100                      | 1             | 07/08/14 14:55 | 07/10/14 13:02 | 7439-89-6 |      |
| Lead                                  | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:02 | 7439-92-1 |      |
| Selenium                              | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:02 | 7782-49-2 |      |
| Thallium                              | ND ug/L                    |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:02 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> |                            | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                          |               |                |                |           |      |
| Acenaphthene                          | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 83-32-9   |      |
| Acenaphthylene                        | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 208-96-8  |      |
| Anthracene                            | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 120-12-7  |      |
| Benzo(a)anthracene                    | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 56-55-3   |      |
| Benzo(a)pyrene                        | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 50-32-8   |      |
| Benzo(b)fluoranthene                  | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 205-99-2  |      |
| Benzo(g,h,i)perylene                  | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 191-24-2  |      |
| Benzo(k)fluoranthene                  | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 207-08-9  |      |
| Benzyl alcohol                        | ND ug/L                    |  | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 100-51-6  |      |
| 4-Bromophenylphenyl ether             | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 101-55-3  |      |
| Butylbenzylphthalate                  | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 85-68-7   |      |
| 4-Chloro-3-methylphenol               | ND ug/L                    |  | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 59-50-7   |      |
| 4-Chloroaniline                       | ND ug/L                    |  | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane            | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 111-91-1  |      |
| bis(2-Chloroethyl) ether              | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 111-44-4  |      |
| bis(2chloro1methylethyl) ether        | ND ug/L                    |  | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 108-60-1  |      |
| 2-Chloronaphthalene                   | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 91-58-7   |      |
| 2-Chlorophenol                        | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether            | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 7005-72-3 |      |
| Chrysene                              | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 218-01-9  |      |
| Dibenz(a,h)anthracene                 | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 53-70-3   |      |
| Dibenzofuran                          | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                | ND ug/L                    |  | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 91-94-1   |      |
| 2,4-Dichlorophenol                    | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 120-83-2  |      |
| Diethylphthalate                      | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 84-66-2   |      |
| 2,4-Dimethylphenol                    | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 105-67-9  |      |
| Dimethylphthalate                     | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 131-11-3  |      |
| Di-n-butylphthalate                   | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol            | ND ug/L                    |  | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 534-52-1  |      |
| 2,4-Dinitrophenol                     | ND ug/L                    |  | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 51-28-5   |      |
| 2,4-Dinitrotoluene                    | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 121-14-2  |      |
| 2,6-Dinitrotoluene                    | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 606-20-2  |      |
| Di-n-octylphthalate                   | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate            | ND ug/L                    |  | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 117-81-7  |      |
| Fluoranthene                          | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 206-44-0  |      |
| Fluorene                              | ND ug/L                    |  | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 86-73-7   |      |
| Hexachloro-1,3-butadiene              | ND ug/L                    |  | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 87-68-3   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-10</b>                                    | Lab ID: <b>50100317010</b> | Collected: 07/02/14 10:20 | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|--|----------------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters   | Results                    | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b>                    |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                            |                           |                          |               |                |                |           |      |
| Hexachlorobenzene  | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | ND ug/L                    |                           | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 77-47-4   |      |
| Hexachloroethane   | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 193-39-5  |      |
| Isophorone   | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | ND ug/L                    |                           | 20.6                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 |           |      |
| Naphthalene  | ND ug/L                    |                           | 5.2                      | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 91-20-3   |      |
| 2-Nitroaniline   | ND ug/L                    |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 88-74-4   |      |
| 3-Nitroaniline   | ND ug/L                    |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 99-09-2   |      |
| 4-Nitroaniline   | ND ug/L                    |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 100-01-6  |      |
| Nitrobenzene   | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 98-95-3   |      |
| 2-Nitrophenol  | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 88-75-5   |      |
| 4-Nitrophenol  | ND ug/L                    |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine                               | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 86-30-6   |      |
| Pentachlorophenol  | ND ug/L                    |                           | 51.5                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 87-86-5   |      |
| Phenanthrene   | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 85-01-8   |      |
| Phenol   | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 108-95-2  |      |
| Pyrene   | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                                    | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | ND ug/L                    |                           | 10.3                     | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 88-06-2   |      |
| <b>Surrogates</b>  |                            |                           |                          |               |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 90 %.                      |                           | 29-126                   | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                                     | 92 %.                      |                           | 31-118                   | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 65 %.                      |                           | 28-129                   | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 1718-51-0 |      |
| Phenol-d5 (S)  | 20 %.                      |                           | 10-47                    | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 32 %.                      |                           | 10-67                    | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 99 %.                      |                           | 31-161                   | 1             | 07/09/14 13:01 | 07/10/14 05:55 | 118-79-6  |      |
| <b>8260 MSV</b>  |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8260                              |                            |                           |                          |               |                |                |           |      |
| Acetone  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 08:29 | 67-64-1   |      |
| Acrolein   | ND ug/L                    |                           | 50.0                     | 1             |                | 07/16/14 08:29 | 107-02-8  |      |
| Acrylonitrile  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 08:29 | 107-13-1  |      |
| Benzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 71-43-2   |      |
| Bromobenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 108-86-1  |      |
| Bromochloromethane                                       | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 74-97-5   |      |
| Bromodichloromethane                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 75-27-4   |      |
| Bromoform  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 75-25-2   |      |
| Bromomethane   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 74-83-9   |      |
| 2-Butanone (MEK)   | ND ug/L                    |                           | 25.0                     | 1             |                | 07/16/14 08:29 | 78-93-3   |      |
| n-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 104-51-8  |      |
| sec-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 135-98-8  |      |
| tert-Butylbenzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 98-06-6   |      |
| Carbon disulfide   | ND ug/L                    |                           | 10.0                     | 1             |                | 07/16/14 08:29 | 75-15-0   |      |
| Carbon tetrachloride                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 08:29 | 56-23-5   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-10</b>       | Lab ID: <b>50100317010</b> | Collected: 07/02/14 10:20   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|----------------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results                    | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                            | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 108-90-7   |      |
| Chloroethane                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 75-00-3    |      |
| Chloroform                  | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 67-66-3    |      |
| Chloromethane               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 74-87-3    |      |
| 2-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 95-49-8    |      |
| 4-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 106-43-4   |      |
| Dibromochloromethane        | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 106-93-4   |      |
| Dibromomethane              | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 08:29 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 100-41-4   |      |
| Ethyl methacrylate          | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 08:29 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 87-68-3    |      |
| n-Hexane                    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 110-54-3   | N2   |
| 2-Hexanone                  | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 08:29 | 591-78-6   |      |
| Iodomethane                 | ND ug/L                    |                             | 10.0                     | 1             |          | 07/16/14 08:29 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 98-82-8    |      |
| p-Isopropyltoluene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 99-87-6    |      |
| Methylene Chloride          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 08:29 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND ug/L                    |                             | 4.0                      | 1             |          | 07/16/14 08:29 | 1634-04-4  |      |
| Naphthalene                 | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 91-20-3    |      |
| n-Propylbenzene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 103-65-1   |      |
| Styrene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 79-34-5    |      |
| Tetrachloroethene           | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 127-18-4   |      |
| Toluene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 08:29 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>TMW-10</b>    |         | Lab ID: <b>50100317010</b>  | Collected: 07/02/14 10:20 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|--------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters               | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 08:29 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 08:29 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 08:29 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 08:29 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 08:29 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L |                             | 50.0                      | 1                        |               | 07/16/14 08:29 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L |                             | 2.0                       | 1                        |               | 07/16/14 08:29 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L |                             | 10.0                      | 1                        |               | 07/16/14 08:29 | 1330-20-7 |      |
| <b>Surrogates</b>        |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S) | 100 %.  |                             | 79-116                    | 1                        |               | 07/16/14 08:29 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 92 %.   |                             | 80-114                    | 1                        |               | 07/16/14 08:29 | 460-00-4  |      |
| Toluene-d8 (S)           | 90 %.   |                             | 81-110                    | 1                        |               | 07/16/14 08:29 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: GW-Dupe                       | Lab ID: 50100317011 | Collected: 07/02/14 08:00                                | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|---------------------------------------|---------------------|--|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters                            | Results             | Units  | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                   |                     | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                          |               |                |                |           |      |
| Antimony                              | ND ug/L             |  | 6.0                      | 1             | 07/08/14 14:55 | 07/10/14 13:05 | 7440-36-0 | CU   |
| Arsenic                               | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:05 | 7440-38-2 |      |
| Chromium                              | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:05 | 7440-47-3 |      |
| Cobalt                                | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:05 | 7440-48-4 |      |
| Iron                                  | <b>287</b> ug/L     |  | 100                      | 1             | 07/08/14 14:55 | 07/10/14 13:05 | 7439-89-6 |      |
| Lead                                  | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:05 | 7439-92-1 |      |
| Selenium                              | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:05 | 7782-49-2 |      |
| Thallium                              | ND ug/L             |  | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:05 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> |                     | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                          |               |                |                |           |      |
| Acenaphthene                          | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 83-32-9   |      |
| Acenaphthylene                        | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 208-96-8  |      |
| Anthracene                            | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 120-12-7  |      |
| Benzo(a)anthracene                    | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 56-55-3   |      |
| Benzo(a)pyrene                        | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 50-32-8   |      |
| Benzo(b)fluoranthene                  | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 205-99-2  |      |
| Benzo(g,h,i)perylene                  | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 191-24-2  |      |
| Benzo(k)fluoranthene                  | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 207-08-9  |      |
| Benzyl alcohol                        | ND ug/L             |  | 21.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 100-51-6  |      |
| 4-Bromophenylphenyl ether             | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 101-55-3  |      |
| Butylbenzylphthalate                  | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 85-68-7   |      |
| 4-Chloro-3-methylphenol               | ND ug/L             |  | 21.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 59-50-7   |      |
| 4-Chloroaniline                       | ND ug/L             |  | 21.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane            | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 111-91-1  |      |
| bis(2-Chloroethyl) ether              | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 111-44-4  |      |
| bis(2chloro 1methylethyl) ether       | ND ug/L             |  | 5.3                      | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 108-60-1  |      |
| 2-Chloronaphthalene                   | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 91-58-7   |      |
| 2-Chlorophenol                        | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether            | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 7005-72-3 |      |
| Chrysene                              | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 218-01-9  |      |
| Dibenz(a,h)anthracene                 | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 53-70-3   |      |
| Dibenzofuran                          | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                | ND ug/L             |  | 21.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 91-94-1   |      |
| 2,4-Dichlorophenol                    | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 120-83-2  |      |
| Diethylphthalate                      | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 84-66-2   |      |
| 2,4-Dimethylphenol                    | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 105-67-9  |      |
| Dimethylphthalate                     | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 131-11-3  |      |
| Di-n-butylphthalate                   | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol            | ND ug/L             |  | 52.6                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 534-52-1  |      |
| 2,4-Dinitrophenol                     | ND ug/L             |  | 52.6                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 51-28-5   |      |
| 2,4-Dinitrotoluene                    | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 121-14-2  |      |
| 2,6-Dinitrotoluene                    | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 606-20-2  |      |
| Di-n-octylphthalate                   | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate            | ND ug/L             |  | 5.3                      | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 117-81-7  |      |
| Fluoranthene                          | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 206-44-0  |      |
| Fluorene                              | ND ug/L             |  | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 86-73-7   |      |
| Hexachloro-1,3-butadiene              | ND ug/L             |  | 5.3                      | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 87-68-3   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>GW-Dupe</b>                                   | Lab ID: <b>50100317011</b> | Collected: 07/02/14 08:00 | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|--|----------------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters   | Results                    | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b>                    |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                            |                           |                          |               |                |                |           |      |
| Hexachlorobenzene  | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | ND ug/L                    |                           | 21.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 77-47-4   |      |
| Hexachloroethane   | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 193-39-5  |      |
| Isophorone   | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | ND ug/L                    |                           | 21.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 |           |      |
| Naphthalene  | ND ug/L                    |                           | 5.3                      | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 91-20-3   |      |
| 2-Nitroaniline   | ND ug/L                    |                           | 52.6                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 88-74-4   |      |
| 3-Nitroaniline   | ND ug/L                    |                           | 52.6                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 99-09-2   |      |
| 4-Nitroaniline   | ND ug/L                    |                           | 52.6                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 100-01-6  |      |
| Nitrobenzene   | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 98-95-3   |      |
| 2-Nitrophenol  | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 88-75-5   |      |
| 4-Nitrophenol  | ND ug/L                    |                           | 52.6                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine                               | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 86-30-6   |      |
| Pentachlorophenol  | ND ug/L                    |                           | 52.6                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 87-86-5   |      |
| Phenanthrene   | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 85-01-8   |      |
| Phenol   | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 108-95-2  |      |
| Pyrene   | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                                    | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | ND ug/L                    |                           | 10.5                     | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 88-06-2   |      |
| <b>Surrogates</b>  |                            |                           |                          |               |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 86 %.                      |                           | 29-126                   | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                                     | 87 %.                      |                           | 31-118                   | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 45 %.                      |                           | 28-129                   | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 1718-51-0 |      |
| Phenol-d5 (S)  | 20 %.                      |                           | 10-47                    | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 32 %.                      |                           | 10-67                    | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 93 %.                      |                           | 31-161                   | 1             | 07/09/14 13:01 | 07/10/14 06:18 | 118-79-6  |      |
| <b>8260 MSV</b>  |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8260                              |                            |                           |                          |               |                |                |           |      |
| Acetone  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 09:01 | 67-64-1   |      |
| Acrolein   | ND ug/L                    |                           | 50.0                     | 1             |                | 07/16/14 09:01 | 107-02-8  |      |
| Acrylonitrile  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 09:01 | 107-13-1  |      |
| Benzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 71-43-2   |      |
| Bromobenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 108-86-1  |      |
| Bromochloromethane                                       | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 74-97-5   |      |
| Bromodichloromethane                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 75-27-4   |      |
| Bromoform  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 75-25-2   |      |
| Bromomethane   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 74-83-9   |      |
| 2-Butanone (MEK)   | ND ug/L                    |                           | 25.0                     | 1             |                | 07/16/14 09:01 | 78-93-3   |      |
| n-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 104-51-8  |      |
| sec-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 135-98-8  |      |
| tert-Butylbenzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 98-06-6   |      |
| Carbon disulfide   | ND ug/L                    |                           | 10.0                     | 1             |                | 07/16/14 09:01 | 75-15-0   |      |
| Carbon tetrachloride                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:01 | 56-23-5   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>GW-Dupe</b>      | Lab ID: <b>50100317011</b> | Collected: 07/02/14 08:00   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|----------------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results                    | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                            | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 108-90-7   |      |
| Chloroethane                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 75-00-3    |      |
| Chloroform                  | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 67-66-3    |      |
| Chloromethane               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 74-87-3    |      |
| 2-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 95-49-8    |      |
| 4-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 106-43-4   |      |
| Dibromochloromethane        | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 106-93-4   |      |
| Dibromomethane              | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 09:01 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 100-41-4   |      |
| Ethyl methacrylate          | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 09:01 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 87-68-3    |      |
| n-Hexane                    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 110-54-3   | N2   |
| 2-Hexanone                  | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 09:01 | 591-78-6   |      |
| Iodomethane                 | ND ug/L                    |                             | 10.0                     | 1             |          | 07/16/14 09:01 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 98-82-8    |      |
| p-Isopropyltoluene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 99-87-6    |      |
| Methylene Chloride          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 09:01 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND ug/L                    |                             | 4.0                      | 1             |          | 07/16/14 09:01 | 1634-04-4  |      |
| Naphthalene                 | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 91-20-3    |      |
| n-Propylbenzene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 103-65-1   |      |
| Styrene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 79-34-5    |      |
| Tetrachloroethene           | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 127-18-4   |      |
| Toluene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | 8.5 ug/L                   |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>GW-Dupe</b>   | Lab ID: <b>50100317011</b> | Collected: 07/02/14 08:00   | Received: 07/03/14 09:15 | Matrix: Water |          |                |           |      |
|--------------------------|----------------------------|-----------------------------|--------------------------|---------------|----------|----------------|-----------|------|
| Parameters               | Results                    | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>          |                            | Analytical Method: EPA 8260 |                          |               |          |                |           |      |
| Trichloroethene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 79-01-6   |      |
| Trichlorofluoromethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 75-69-4   |      |
| 1,2,3-Trichloropropane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:01 | 108-67-8  |      |
| Vinyl acetate            | ND ug/L                    |                             | 50.0                     | 1             |          | 07/16/14 09:01 | 108-05-4  |      |
| Vinyl chloride           | ND ug/L                    |                             | 2.0                      | 1             |          | 07/16/14 09:01 | 75-01-4   |      |
| Xylene (Total)           | ND ug/L                    |                             | 10.0                     | 1             |          | 07/16/14 09:01 | 1330-20-7 |      |
| <b>Surrogates</b>        |                            |                             |                          |               |          |                |           |      |
| Dibromofluoromethane (S) | 103 %.                     |                             | 79-116                   | 1             |          | 07/16/14 09:01 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S) | 90 %.                      |                             | 80-114                   | 1             |          | 07/16/14 09:01 | 460-00-4  |      |
| Toluene-d8 (S)           | 90 %.                      |                             | 81-110                   | 1             |          | 07/16/14 09:01 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: GW EQ Blank                   |         | Lab ID: 50100317012                                      | Collected: 07/02/14 18:30 | Received: 07/03/14 09:15 | Matrix: Water  |                |           |      |
|---------------------------------------|---------|--|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters                            | Results | Units  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                   |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |           |      |
| Antimony                              | ND ug/L |  | 6.0                       | 1                        | 07/08/14 14:55 | 07/10/14 13:08 | 7440-36-0 | CU   |
| Arsenic                               | ND ug/L |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 13:08 | 7440-38-2 |      |
| Chromium                              | ND ug/L |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 13:08 | 7440-47-3 |      |
| Cobalt                                | ND ug/L |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 13:08 | 7440-48-4 |      |
| Iron                                  | ND ug/L |  | 100                       | 1                        | 07/08/14 14:55 | 07/10/14 13:08 | 7439-89-6 |      |
| Lead                                  | ND ug/L |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 13:08 | 7439-92-1 |      |
| Selenium                              | ND ug/L |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 13:08 | 7782-49-2 |      |
| Thallium                              | ND ug/L |  | 10.0                      | 1                        | 07/08/14 14:55 | 07/10/14 13:08 | 7440-28-0 |      |
| <b>8270 MSSV Semivolatile Organic</b> |         | Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                           |                          |                |                |           |      |
| Acenaphthene                          | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 83-32-9   |      |
| Acenaphthylene                        | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 208-96-8  |      |
| Anthracene                            | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 120-12-7  |      |
| Benzo(a)anthracene                    | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 56-55-3   |      |
| Benzo(a)pyrene                        | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 50-32-8   |      |
| Benzo(b)fluoranthene                  | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 205-99-2  |      |
| Benzo(g,h,i)perylene                  | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 191-24-2  |      |
| Benzo(k)fluoranthene                  | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 207-08-9  |      |
| Benzyl alcohol                        | ND ug/L |  | 28.2                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 100-51-6  |      |
| 4-Bromophenylphenyl ether             | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 101-55-3  |      |
| Butylbenzylphthalate                  | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 85-68-7   |      |
| 4-Chloro-3-methylphenol               | ND ug/L |  | 28.2                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 59-50-7   |      |
| 4-Chloroaniline                       | ND ug/L |  | 28.2                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane            | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 111-91-1  |      |
| bis(2-Chloroethyl) ether              | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 111-44-4  |      |
| bis(2chloro 1methylethyl) ether       | ND ug/L |  | 7.0                       | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 108-60-1  |      |
| 2-Chloronaphthalene                   | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 91-58-7   |      |
| 2-Chlorophenol                        | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether            | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 7005-72-3 |      |
| Chrysene                              | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 218-01-9  |      |
| Dibenz(a,h)anthracene                 | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 53-70-3   |      |
| Dibenzofuran                          | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                | ND ug/L |  | 28.2                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 91-94-1   |      |
| 2,4-Dichlorophenol                    | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 120-83-2  |      |
| Diethylphthalate                      | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 84-66-2   |      |
| 2,4-Dimethylphenol                    | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 105-67-9  |      |
| Dimethylphthalate                     | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 131-11-3  |      |
| Di-n-butylphthalate                   | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol            | ND ug/L |  | 70.4                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 534-52-1  |      |
| 2,4-Dinitrophenol                     | ND ug/L |  | 70.4                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 51-28-5   |      |
| 2,4-Dinitrotoluene                    | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 121-14-2  |      |
| 2,6-Dinitrotoluene                    | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 606-20-2  |      |
| Di-n-octylphthalate                   | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 117-84-0  |      |
| bis(2-Ethylhexyl)phthalate            | ND ug/L |  | 7.0                       | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 117-81-7  |      |
| Fluoranthene                          | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 206-44-0  |      |
| Fluorene                              | ND ug/L |  | 14.1                      | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 86-73-7   |      |
| Hexachloro-1,3-butadiene              | ND ug/L |  | 7.0                       | 1                        | 07/09/14 13:01 | 07/10/14 06:40 | 87-68-3   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>GW EQ Blank</b>                               | Lab ID: <b>50100317012</b> | Collected: 07/02/14 18:30 | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|--|----------------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters   | Results                    | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>8270 MSSV Semivolatile Organic</b>                    |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                            |                           |                          |               |                |                |           |      |
| Hexachlorobenzene  | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | ND ug/L                    |                           | 28.2                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 77-47-4   |      |
| Hexachloroethane   | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 193-39-5  |      |
| Isophorone   | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | ND ug/L                    |                           | 28.2                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 |           |      |
| Naphthalene  | ND ug/L                    |                           | 7.0                      | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 91-20-3   |      |
| 2-Nitroaniline   | ND ug/L                    |                           | 70.4                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 88-74-4   |      |
| 3-Nitroaniline   | ND ug/L                    |                           | 70.4                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 99-09-2   |      |
| 4-Nitroaniline   | ND ug/L                    |                           | 70.4                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 100-01-6  |      |
| Nitrobenzene   | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 98-95-3   |      |
| 2-Nitrophenol  | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 88-75-5   |      |
| 4-Nitrophenol  | ND ug/L                    |                           | 70.4                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 100-02-7  |      |
| N-Nitroso-di-n-propylamine                               | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 86-30-6   |      |
| Pentachlorophenol  | ND ug/L                    |                           | 70.4                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 87-86-5   |      |
| Phenanthrene   | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 85-01-8   |      |
| Phenol   | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 108-95-2  |      |
| Pyrene   | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 129-00-0  |      |
| 2,4,5-Trichlorophenol                                    | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | ND ug/L                    |                           | 14.1                     | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 88-06-2   |      |
| <b>Surrogates</b>  |                            |                           |                          |               |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 81 %.                      |                           | 29-126                   | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 4165-60-0 |      |
| 2-Fluorobiphenyl (S)                                     | 80 %.                      |                           | 31-118                   | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 74 %.                      |                           | 28-129                   | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 1718-51-0 |      |
| Phenol-d5 (S)  | 23 %.                      |                           | 10-47                    | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 34 %.                      |                           | 10-67                    | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 89 %.                      |                           | 31-161                   | 1             | 07/09/14 13:01 | 07/10/14 06:40 | 118-79-6  |      |
| <b>8260 MSV</b>  |                            |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8260                              |                            |                           |                          |               |                |                |           |      |
| Acetone  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 09:34 | 67-64-1   |      |
| Acrolein   | ND ug/L                    |                           | 50.0                     | 1             |                | 07/16/14 09:34 | 107-02-8  |      |
| Acrylonitrile  | ND ug/L                    |                           | 100                      | 1             |                | 07/16/14 09:34 | 107-13-1  |      |
| Benzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 71-43-2   |      |
| Bromobenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 108-86-1  |      |
| Bromochloromethane                                       | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 74-97-5   |      |
| Bromodichloromethane                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 75-27-4   |      |
| Bromoform  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 75-25-2   |      |
| Bromomethane   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 74-83-9   |      |
| 2-Butanone (MEK)   | ND ug/L                    |                           | 25.0                     | 1             |                | 07/16/14 09:34 | 78-93-3   |      |
| n-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 104-51-8  |      |
| sec-Butylbenzene   | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 135-98-8  |      |
| tert-Butylbenzene  | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 98-06-6   |      |
| Carbon disulfide   | ND ug/L                    |                           | 10.0                     | 1             |                | 07/16/14 09:34 | 75-15-0   |      |
| Carbon tetrachloride                                     | ND ug/L                    |                           | 5.0                      | 1             |                | 07/16/14 09:34 | 56-23-5   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>GW EQ Blank</b>  | Lab ID: <b>50100317012</b> | Collected: 07/02/14 18:30   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|----------------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results                    | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                            | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Chlorobenzene               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 108-90-7   |      |
| Chloroethane                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 75-00-3    |      |
| Chloroform                  | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 67-66-3    |      |
| Chloromethane               | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 74-87-3    |      |
| 2-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 95-49-8    |      |
| 4-Chlorotoluene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 106-43-4   |      |
| Dibromochloromethane        | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 106-93-4   |      |
| Dibromomethane              | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 09:34 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 100-41-4   |      |
| Ethyl methacrylate          | ND ug/L                    |                             | 100                      | 1             |          | 07/16/14 09:34 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 87-68-3    |      |
| n-Hexane                    | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 110-54-3   | N2   |
| 2-Hexanone                  | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 09:34 | 591-78-6   |      |
| Iodomethane                 | ND ug/L                    |                             | 10.0                     | 1             |          | 07/16/14 09:34 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 98-82-8    |      |
| p-Isopropyltoluene          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 99-87-6    |      |
| Methylene Chloride          | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L                    |                             | 25.0                     | 1             |          | 07/16/14 09:34 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND ug/L                    |                             | 4.0                      | 1             |          | 07/16/14 09:34 | 1634-04-4  |      |
| Naphthalene                 | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 91-20-3    |      |
| n-Propylbenzene             | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 103-65-1   |      |
| Styrene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 79-34-5    |      |
| Tetrachloroethene           | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 127-18-4   |      |
| Toluene                     | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND ug/L                    |                             | 5.0                      | 1             |          | 07/16/14 09:34 | 79-00-5    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: <b>GW EQ Blank</b> |         | Lab ID: <b>50100317012</b>  | Collected: 07/02/14 18:30 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| Trichloroethene            | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 09:34 | 79-01-6   |      |
| Trichlorofluoromethane     | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 09:34 | 75-69-4   |      |
| 1,2,3-Trichloropropane     | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 09:34 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene     | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 09:34 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene     | ND ug/L |                             | 5.0                       | 1                        |               | 07/16/14 09:34 | 108-67-8  |      |
| Vinyl acetate              | ND ug/L |                             | 50.0                      | 1                        |               | 07/16/14 09:34 | 108-05-4  |      |
| Vinyl chloride             | ND ug/L |                             | 2.0                       | 1                        |               | 07/16/14 09:34 | 75-01-4   |      |
| Xylene (Total)             | ND ug/L |                             | 10.0                      | 1                        |               | 07/16/14 09:34 | 1330-20-7 |      |
| <b>Surrogates</b>          |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S)   | 101 %.  |                             | 79-116                    | 1                        |               | 07/16/14 09:34 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S)   | 90 %.   |                             | 80-114                    | 1                        |               | 07/16/14 09:34 | 460-00-4  |      |
| Toluene-d8 (S)             | 92 %.   |                             | 81-110                    | 1                        |               | 07/16/14 09:34 | 2037-26-5 |      |

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### ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: Trip Blank          | Lab ID: 50100317013 | Collected: 07/02/14 08:00   | Received: 07/03/14 09:15 | Matrix: Water |          |                |            |      |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                  | Results             | Units                       | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |                     | Analytical Method: EPA 8260 |                          |               |          |                |            |      |
| Acetone                     | ND ug/L             |                             | 100                      | 1             |          | 07/16/14 10:06 | 67-64-1    |      |
| Acrolein                    | ND ug/L             |                             | 50.0                     | 1             |          | 07/16/14 10:06 | 107-02-8   |      |
| Acrylonitrile               | ND ug/L             |                             | 100                      | 1             |          | 07/16/14 10:06 | 107-13-1   |      |
| Benzene                     | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 71-43-2    |      |
| Bromobenzene                | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 108-86-1   |      |
| Bromochloromethane          | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 74-97-5    |      |
| Bromodichloromethane        | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 75-27-4    |      |
| Bromoform                   | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 75-25-2    |      |
| Bromomethane                | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND ug/L             |                             | 25.0                     | 1             |          | 07/16/14 10:06 | 78-93-3    |      |
| n-Butylbenzene              | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 104-51-8   |      |
| sec-Butylbenzene            | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 135-98-8   |      |
| tert-Butylbenzene           | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 98-06-6    |      |
| Carbon disulfide            | ND ug/L             |                             | 10.0                     | 1             |          | 07/16/14 10:06 | 75-15-0    |      |
| Carbon tetrachloride        | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 56-23-5    |      |
| Chlorobenzene               | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 108-90-7   |      |
| Chloroethane                | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 75-00-3    |      |
| Chloroform                  | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 67-66-3    |      |
| Chloromethane               | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 74-87-3    |      |
| 2-Chlorotoluene             | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 95-49-8    |      |
| 4-Chlorotoluene             | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 106-43-4   |      |
| Dibromochloromethane        | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 106-93-4   |      |
| Dibromomethane              | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND ug/L             |                             | 100                      | 1             |          | 07/16/14 10:06 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 100-41-4   |      |
| Ethyl methacrylate          | ND ug/L             |                             | 100                      | 1             |          | 07/16/14 10:06 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 87-68-3    |      |
| n-Hexane                    | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 110-54-3   | N2   |
| 2-Hexanone                  | ND ug/L             |                             | 25.0                     | 1             |          | 07/16/14 10:06 | 591-78-6   |      |
| Iodomethane                 | ND ug/L             |                             | 10.0                     | 1             |          | 07/16/14 10:06 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND ug/L             |                             | 5.0                      | 1             |          | 07/16/14 10:06 | 98-82-8    |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: Trip Blank          |         | Lab ID: 50100317013         | Collected: 07/02/14 08:00 | Received: 07/03/14 09:15 | Matrix: Water |                |           |      |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-----------|------|
| Parameters                  | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.   | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |                           |                          |               |                |           |      |
| p-Isopropyltoluene          | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 99-87-6   |      |
| Methylene Chloride          | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/L                        | 25.0                      | 1                        |               | 07/16/14 10:06 | 108-10-1  |      |
| Methyl-tert-butyl ether     | ND      | ug/L                        | 4.0                       | 1                        |               | 07/16/14 10:06 | 1634-04-4 |      |
| Naphthalene                 | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 91-20-3   |      |
| n-Propylbenzene             | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 103-65-1  |      |
| Styrene                     | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 79-34-5   |      |
| Tetrachloroethene           | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 127-18-4  |      |
| Toluene                     | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene      | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene      | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 120-82-1  |      |
| 1,1,1-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 71-55-6   |      |
| 1,1,2-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 79-00-5   |      |
| Trichloroethene             | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 79-01-6   |      |
| Trichlorofluoromethane      | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 75-69-4   |      |
| 1,2,3-Trichloropropane      | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene      | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene      | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:06 | 108-67-8  |      |
| Vinyl acetate               | ND      | ug/L                        | 50.0                      | 1                        |               | 07/16/14 10:06 | 108-05-4  |      |
| Vinyl chloride              | ND      | ug/L                        | 2.0                       | 1                        |               | 07/16/14 10:06 | 75-01-4   |      |
| Xylene (Total)              | ND      | ug/L                        | 10.0                      | 1                        |               | 07/16/14 10:06 | 1330-20-7 |      |
| <b>Surrogates</b>           |         |                             |                           |                          |               |                |           |      |
| Dibromofluoromethane (S)    | 99 %.   |                             | 79-116                    | 1                        |               | 07/16/14 10:06 | 1868-53-7 |      |
| 4-Bromofluorobenzene (S)    | 89 %.   |                             | 80-114                    | 1                        |               | 07/16/14 10:06 | 460-00-4  |      |
| Toluene-d8 (S)              | 89 %.   |                             | 81-110                    | 1                        |               | 07/16/14 10:06 | 2037-26-5 |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: S-A IDW  | Lab ID: 50100317014 | Collected: 07/02/14 18:00 | Received: 07/03/14 09:15 | Matrix: Water |                |                |           |      |
|--|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|-----------|------|
| Parameters   | Results             | Units                     | Report Limit             | DF            | Prepared       | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP</b>                                      |                     |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                     |                           |                          |               |                |                |           |      |
| Antimony   | ND ug/L             |                           | 6.0                      | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7440-36-0 | CU   |
| Arsenic  | 22.5 ug/L           |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7440-38-2 |      |
| Beryllium  | ND ug/L             |                           | 4.0                      | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7440-41-7 |      |
| Cadmium  | ND ug/L             |                           | 2.0                      | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7440-43-9 |      |
| Chromium   | 72.1 ug/L           |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7440-47-3 |      |
| Copper   | 67.7 ug/L           |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7440-50-8 |      |
| Lead   | 27.6 ug/L           |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7439-92-1 |      |
| Nickel   | 37.5 ug/L           |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7440-02-0 |      |
| Selenium   | ND ug/L             |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7782-49-2 |      |
| Thallium   | ND ug/L             |                           | 10.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7440-28-0 |      |
| Zinc   | 200 ug/L            |                           | 20.0                     | 1             | 07/08/14 14:55 | 07/10/14 13:14 | 7440-66-6 |      |
| <b>7470 Mercury</b>                                      |                     |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470 |                     |                           |                          |               |                |                |           |      |
| Mercury  | ND ug/L             |                           | 2.0                      | 1             | 07/09/14 09:48 | 07/10/14 12:44 | 7439-97-6 |      |
| <b>8270 MSSV Semivolatile Organic</b>                    |                     |                           |                          |               |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |                     |                           |                          |               |                |                |           |      |
| Acenaphthene   | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 83-32-9   |      |
| Acenaphthylene   | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 208-96-8  |      |
| Anthracene   | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 120-12-7  |      |
| Benzo(a)anthracene                                       | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 56-55-3   |      |
| Benzo(a)pyrene   | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 207-08-9  |      |
| Benzyl alcohol   | ND ug/L             |                           | 20.4                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 100-51-6  |      |
| 4-Bromophenylphenyl ether                                | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 101-55-3  |      |
| Butylbenzylphthalate                                     | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 85-68-7   |      |
| 4-Chloro-3-methylphenol                                  | ND ug/L             |                           | 20.4                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 59-50-7   |      |
| 4-Chloroaniline  | ND ug/L             |                           | 20.4                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane                               | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 111-44-4  |      |
| bis(2chloro1methylethyl) ether                           | ND ug/L             |                           | 5.1                      | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 91-58-7   |      |
| 2-Chlorophenol   | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 7005-72-3 |      |
| Chrysene   | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 53-70-3   |      |
| Dibenzofuran   | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 132-64-9  |      |
| 3,3'-Dichlorobenzidine                                   | ND ug/L             |                           | 20.4                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 91-94-1   |      |
| 2,4-Dichlorophenol                                       | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 120-83-2  |      |
| Diethylphthalate   | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 105-67-9  |      |
| Dimethylphthalate  | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 131-11-3  |      |
| Di-n-butylphthalate                                      | ND ug/L             |                           | 10.2                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | ND ug/L             |                           | 51.0                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 534-52-1  |      |
| 2,4-Dinitrophenol  | ND ug/L             |                           | 51.0                     | 1             | 07/09/14 13:01 | 07/10/14 07:03 | 51-28-5   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

**Sample: S-A IDW**      **Lab ID: 50100317014**      Collected: 07/02/14 18:00      Received: 07/03/14 09:15      Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|----|----------|----------|---------|------|
|------------|---------|-------|--------------|----|----------|----------|---------|------|

**8270 MSSV Semivolatile Organic**      Analytical Method: EPA 8270      Preparation Method: EPA 3510

|                              |         |  |      |   |                |                |          |  |
|------------------------------|---------|--|------|---|----------------|----------------|----------|--|
| 2,4-Dinitrotoluene           | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 121-14-2 |  |
| 2,6-Dinitrotoluene           | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 606-20-2 |  |
| Di-n-octylphthalate          | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 117-84-0 |  |
| bis(2-Ethylhexyl)phthalate   | ND ug/L |  | 5.1  | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 117-81-7 |  |
| Fluoranthene                 | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 206-44-0 |  |
| Fluorene                     | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 86-73-7  |  |
| Hexachloro-1,3-butadiene     | ND ug/L |  | 5.1  | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 87-68-3  |  |
| Hexachlorobenzene            | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 118-74-1 |  |
| Hexachlorocyclopentadiene    | ND ug/L |  | 20.4 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 77-47-4  |  |
| Hexachloroethane             | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 67-72-1  |  |
| Indeno(1,2,3-cd)pyrene       | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 193-39-5 |  |
| Isophorone                   | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 78-59-1  |  |
| 2-Methylnaphthalene          | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 91-57-6  |  |
| 2-Methylphenol(o-Cresol)     | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 95-48-7  |  |
| 3&4-Methylphenol(m&p Cresol) | ND ug/L |  | 20.4 | 1 | 07/09/14 13:01 | 07/10/14 07:03 |          |  |
| Naphthalene                  | ND ug/L |  | 5.1  | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 91-20-3  |  |
| 2-Nitroaniline               | ND ug/L |  | 51.0 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 88-74-4  |  |
| 3-Nitroaniline               | ND ug/L |  | 51.0 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 99-09-2  |  |
| 4-Nitroaniline               | ND ug/L |  | 51.0 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 100-01-6 |  |
| Nitrobenzene                 | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 98-95-3  |  |
| 2-Nitrophenol                | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 88-75-5  |  |
| 4-Nitrophenol                | ND ug/L |  | 51.0 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 100-02-7 |  |
| N-Nitroso-di-n-propylamine   | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 621-64-7 |  |
| N-Nitrosodiphenylamine       | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 86-30-6  |  |
| Pentachlorophenol            | ND ug/L |  | 51.0 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 87-86-5  |  |
| Phenanthrene                 | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 85-01-8  |  |
| Phenol                       | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 108-95-2 |  |
| Pyrene                       | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 129-00-0 |  |
| 2,4,5-Trichlorophenol        | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 95-95-4  |  |
| 2,4,6-Trichlorophenol        | ND ug/L |  | 10.2 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 88-06-2  |  |

**Surrogates**

|                          |       |  |        |   |                |                |           |  |
|--------------------------|-------|--|--------|---|----------------|----------------|-----------|--|
| Nitrobenzene-d5 (S)      | 84 %. |  | 29-126 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 4165-60-0 |  |
| 2-Fluorobiphenyl (S)     | 84 %. |  | 31-118 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 321-60-8  |  |
| p-Terphenyl-d14 (S)      | 35 %. |  | 28-129 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 1718-51-0 |  |
| Phenol-d5 (S)            | 18 %. |  | 10-47  | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 4165-62-2 |  |
| 2-Fluorophenol (S)       | 29 %. |  | 10-67  | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 367-12-4  |  |
| 2,4,6-Tribromophenol (S) | 93 %. |  | 31-161 | 1 | 07/09/14 13:01 | 07/10/14 07:03 | 118-79-6  |  |

**8260 MSV**

Analytical Method: EPA 8260

|                      |         |  |      |   |  |                |          |  |
|----------------------|---------|--|------|---|--|----------------|----------|--|
| Acetone              | ND ug/L |  | 100  | 1 |  | 07/16/14 10:39 | 67-64-1  |  |
| Acrolein             | ND ug/L |  | 50.0 | 1 |  | 07/16/14 10:39 | 107-02-8 |  |
| Acrylonitrile        | ND ug/L |  | 100  | 1 |  | 07/16/14 10:39 | 107-13-1 |  |
| Benzene              | ND ug/L |  | 5.0  | 1 |  | 07/16/14 10:39 | 71-43-2  |  |
| Bromobenzene         | ND ug/L |  | 5.0  | 1 |  | 07/16/14 10:39 | 108-86-1 |  |
| Bromochloromethane   | ND ug/L |  | 5.0  | 1 |  | 07/16/14 10:39 | 74-97-5  |  |
| Bromodichloromethane | ND ug/L |  | 5.0  | 1 |  | 07/16/14 10:39 | 75-27-4  |  |
| Bromoform            | ND ug/L |  | 5.0  | 1 |  | 07/16/14 10:39 | 75-25-2  |  |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: S-A IDW             |         | Lab ID: 50100317014         | Collected: 07/02/14 18:00 | Received: 07/03/14 09:15 | Matrix: Water |                |            |      |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                  | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Bromomethane                | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/L                        | 25.0                      | 1                        |               | 07/16/14 10:39 | 78-93-3    |      |
| n-Butylbenzene              | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 104-51-8   |      |
| sec-Butylbenzene            | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 135-98-8   |      |
| tert-Butylbenzene           | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 98-06-6    |      |
| Carbon disulfide            | ND      | ug/L                        | 10.0                      | 1                        |               | 07/16/14 10:39 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 108-90-7   |      |
| Chloroethane                | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 75-00-3    |      |
| Chloroform                  | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 67-66-3    |      |
| Chloromethane               | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 74-87-3    |      |
| 2-Chlorotoluene             | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 95-49-8    |      |
| 4-Chlorotoluene             | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 106-43-4   |      |
| Dibromochloromethane        | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 106-93-4   |      |
| Dibromomethane              | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | ND      | ug/L                        | 100                       | 1                        |               | 07/16/14 10:39 | 110-57-6   |      |
| Dichlorodifluoromethane     | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 75-71-8    |      |
| 1,1-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 78-87-5    |      |
| 1,3-Dichloropropane         | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 142-28-9   |      |
| 2,2-Dichloropropane         | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 594-20-7   |      |
| 1,1-Dichloropropene         | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 100-41-4   |      |
| Ethyl methacrylate          | ND      | ug/L                        | 100                       | 1                        |               | 07/16/14 10:39 | 97-63-2    |      |
| Hexachloro-1,3-butadiene    | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 87-68-3    |      |
| n-Hexane                    | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 110-54-3   | N2   |
| 2-Hexanone                  | ND      | ug/L                        | 25.0                      | 1                        |               | 07/16/14 10:39 | 591-78-6   |      |
| Iodomethane                 | ND      | ug/L                        | 10.0                      | 1                        |               | 07/16/14 10:39 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 98-82-8    |      |
| p-Isopropyltoluene          | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 99-87-6    |      |
| Methylene Chloride          | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/L                        | 25.0                      | 1                        |               | 07/16/14 10:39 | 108-10-1   |      |
| Methyl-tert-butyl ether     | ND      | ug/L                        | 4.0                       | 1                        |               | 07/16/14 10:39 | 1634-04-4  |      |
| Naphthalene                 | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 91-20-3    |      |
| n-Propylbenzene             | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 103-65-1   |      |
| Styrene                     | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/L                        | 5.0                       | 1                        |               | 07/16/14 10:39 | 630-20-6   |      |

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## ANALYTICAL RESULTS

Project: Sibley - Accucast

Pace Project No.: 50100317

| Sample: S-A IDW                     |                  | Lab ID: 50100317014                                      | Collected: 07/02/14 18:00 | Received: 07/03/14 09:15 | Matrix: Water  |                |           |       |
|-------------------------------------|------------------|--|---------------------------|--------------------------|----------------|----------------|-----------|-------|
| Parameters                          | Results          | Units  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual  |
| <b>8260 MSV</b>                     |                  | Analytical Method: EPA 8260                              |                           |                          |                |                |           |       |
| 1,1,2,2-Tetrachloroethane           | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 79-34-5   |       |
| Tetrachloroethene                   | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 127-18-4  |       |
| Toluene                             | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 108-88-3  |       |
| 1,2,3-Trichlorobenzene              | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 87-61-6   |       |
| 1,2,4-Trichlorobenzene              | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 120-82-1  |       |
| 1,1,1-Trichloroethane               | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 71-55-6   |       |
| 1,1,2-Trichloroethane               | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 79-00-5   |       |
| Trichloroethene                     | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 79-01-6   |       |
| Trichlorofluoromethane              | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 75-69-4   |       |
| 1,2,3-Trichloropropane              | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 96-18-4   |       |
| 1,2,4-Trimethylbenzene              | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 95-63-6   |       |
| 1,3,5-Trimethylbenzene              | ND ug/L          |  | 5.0                       | 1                        |                | 07/16/14 10:39 | 108-67-8  |       |
| Vinyl acetate                       | ND ug/L          |  | 50.0                      | 1                        |                | 07/16/14 10:39 | 108-05-4  |       |
| Vinyl chloride                      | ND ug/L          |  | 2.0                       | 1                        |                | 07/16/14 10:39 | 75-01-4   |       |
| Xylene (Total)                      | ND ug/L          |  | 10.0                      | 1                        |                | 07/16/14 10:39 | 1330-20-7 |       |
| <b>Surrogates</b>                   |                  |  |                           |                          |                |                |           |       |
| Dibromofluoromethane (S)            | 100 %.           |  | 79-116                    | 1                        |                | 07/16/14 10:39 | 1868-53-7 |       |
| 4-Bromofluorobenzene (S)            | 92 %.            |  | 80-114                    | 1                        |                | 07/16/14 10:39 | 460-00-4  |       |
| Toluene-d8 (S)                      | 90 %.            |  | 81-110                    | 1                        |                | 07/16/14 10:39 | 2037-26-5 |       |
| <b>2540D Total Suspended Solids</b> |                  | Analytical Method: SM 2540D                              |                           |                          |                |                |           |       |
| Total Suspended Solids              | <b>1150</b> mg/L |  | 8.3                       | 1                        |                | 07/09/14 08:11 |           |       |
| <b>5210B cBOD, 5 day</b>            |                  | Analytical Method: SM 5210B Preparation Method: SM 5210B |                           |                          |                |                |           |       |
| Carbonaceous BOD, 5 day             | <b>6.5</b> mg/L  |  | 2.0                       | 1                        | 07/03/14 15:30 | 07/08/14 11:21 |           | B2,N2 |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

QC Batch: MERP/5539

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Associated Lab Samples: 50100317014

METHOD BLANK: 1124365

Matrix: Water

Associated Lab Samples: 50100317014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Mercury   | ug/L  | ND           | 2.0             | 07/10/14 12:01 |            |

LABORATORY CONTROL SAMPLE: 1124366

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/L  | 5           | 5.2        | 104       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1124367 1124368

| Parameter | Units | 50100202001 Result | MS          | MSD         | MS     | MSD    | MS    | MSD   | % Rec  | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|--------|-------|-------|--------|---------|------|
|           |       |                    | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | Limits |         |      |
| Mercury   | ug/L  | ND                 | 5           | 5           | 5.2    | 5.1    | 104   | 102   | 75-125 | 3       | 20   |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

QC Batch: MPRP/13728 Analysis Method: EPA 6010  
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
 Associated Lab Samples: 50100317001, 50100317002, 50100317003, 50100317004, 50100317005, 50100317006, 50100317007, 50100317008, 50100317009, 50100317010, 50100317011, 50100317012, 50100317014

METHOD BLANK: 1123973 Matrix: Water  
 Associated Lab Samples: 50100317001, 50100317002, 50100317003, 50100317004, 50100317005, 50100317006, 50100317007, 50100317008, 50100317009, 50100317010, 50100317011, 50100317012, 50100317014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Antimony  | ug/L  | ND           | 6.0             | 07/10/14 12:07 | CU         |
| Arsenic   | ug/L  | ND           | 10.0            | 07/10/14 12:07 |            |
| Beryllium | ug/L  | ND           | 4.0             | 07/10/14 12:07 |            |
| Cadmium   | ug/L  | ND           | 2.0             | 07/10/14 12:07 |            |
| Chromium  | ug/L  | ND           | 10.0            | 07/10/14 12:07 |            |
| Cobalt    | ug/L  | ND           | 10.0            | 07/10/14 12:07 |            |
| Copper    | ug/L  | ND           | 10.0            | 07/10/14 12:07 |            |
| Iron      | ug/L  | ND           | 100             | 07/10/14 12:07 |            |
| Lead      | ug/L  | ND           | 10.0            | 07/10/14 12:07 |            |
| Nickel    | ug/L  | ND           | 10.0            | 07/10/14 12:07 |            |
| Selenium  | ug/L  | ND           | 10.0            | 07/10/14 12:07 |            |
| Thallium  | ug/L  | ND           | 10.0            | 07/10/14 12:07 |            |
| Zinc      | ug/L  | ND           | 20.0            | 07/10/14 12:07 |            |

LABORATORY CONTROL SAMPLE: 1123974

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Antimony  | ug/L  | 1000        | 1010       | 101       | 80-120       |            |
| Arsenic   | ug/L  | 1000        | 1010       | 101       | 80-120       |            |
| Beryllium | ug/L  | 1000        | 993        | 99        | 80-120       |            |
| Cadmium   | ug/L  | 1000        | 963        | 96        | 80-120       |            |
| Chromium  | ug/L  | 1000        | 987        | 99        | 80-120       |            |
| Cobalt    | ug/L  | 1000        | 966        | 97        | 80-120       |            |
| Copper    | ug/L  | 1000        | 951        | 95        | 80-120       |            |
| Iron      | ug/L  | 10000       | 9890       | 99        | 80-120       |            |
| Lead      | ug/L  | 1000        | 934        | 93        | 80-120       |            |
| Nickel    | ug/L  | 1000        | 977        | 98        | 80-120       |            |
| Selenium  | ug/L  | 1000        | 987        | 99        | 80-120       |            |
| Thallium  | ug/L  | 1000        | 928        | 93        | 80-120       |            |
| Zinc      | ug/L  | 1000        | 981        | 98        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1123975 1123976

| Parameter | Units | 50100317009 Result | MS          |           | MSD         |            | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|-------------|------------|----------|-----------|--------------|-----|---------|------|
|           |       |                    | Spike Conc. | MS Result | Spike Conc. | MSD Result |          |           |              |     |         |      |
| Antimony  | ug/L  | ND                 | 1000        | 1000      | 1020        | 1020       | 102      | 102       | 75-125       | 1   | 20      |      |
| Arsenic   | ug/L  | ND                 | 1000        | 1000      | 1050        | 1060       | 105      | 106       | 75-125       | 1   | 20      |      |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

| Parameter | Units | 1123975               |                      | 1123976               |              | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD    | Max<br>RPD | Qual |
|-----------|-------|-----------------------|----------------------|-----------------------|--------------|-------------|--------------|-----------------|--------|------------|------|
|           |       | 50100317009<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |             |              |                 |        |            |      |
| Beryllium | ug/L  | ND                    | 1000                 | 1000                  | 1010         | 1020        | 101          | 102             | 75-125 | 1          | 20   |
| Cadmium   | ug/L  | ND                    | 1000                 | 1000                  | 975          | 979         | 98           | 98              | 75-125 | 0          | 20   |
| Chromium  | ug/L  | ND                    | 1000                 | 1000                  | 1000         | 1000        | 100          | 100             | 75-125 | 0          | 20   |
| Cobalt    | ug/L  | ND                    | 1000                 | 1000                  | 950          | 956         | 95           | 95              | 75-125 | 1          | 20   |
| Copper    | ug/L  | ND                    | 1000                 | 1000                  | 965          | 968         | 96           | 97              | 75-125 | 0          | 20   |
| Iron      | ug/L  | 911                   | 10000                | 10000                 | 10900        | 10800       | 100          | 99              | 75-125 | 1          | 20   |
| Lead      | ug/L  | ND                    | 1000                 | 1000                  | 909          | 914         | 91           | 91              | 75-125 | 1          | 20   |
| Nickel    | ug/L  | ND                    | 1000                 | 1000                  | 967          | 972         | 96           | 97              | 75-125 | 1          | 20   |
| Selenium  | ug/L  | ND                    | 1000                 | 1000                  | 1000         | 1010        | 100          | 101             | 75-125 | 0          | 20   |
| Thallium  | ug/L  | ND                    | 1000                 | 1000                  | 882          | 890         | 88           | 89              | 75-125 | 1          | 20   |
| Zinc      | ug/L  | ND                    | 1000                 | 1000                  | 983          | 988         | 97           | 98              | 75-125 | 1          | 20   |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

QC Batch: MSV/66864 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 50100317001, 50100317002, 50100317004

METHOD BLANK: 1128505 Matrix: Water

Associated Lab Samples: 50100317001, 50100317002, 50100317004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,1,1-Trichloroethane       | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,1,2-Trichloroethane       | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,1-Dichloroethane          | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,1-Dichloroethene          | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,1-Dichloropropene         | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,2,3-Trichloropropane      | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,2-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,2-Dichloroethane          | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,2-Dichloropropane         | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,3-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,3-Dichloropropane         | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 1,4-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 2,2-Dichloropropane         | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 2-Butanone (MEK)            | ug/L  | ND           | 25.0            | 07/15/14 15:50 |            |
| 2-Chlorotoluene             | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 2-Hexanone                  | ug/L  | ND           | 25.0            | 07/15/14 15:50 |            |
| 4-Chlorotoluene             | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND           | 25.0            | 07/15/14 15:50 |            |
| Acetone                     | ug/L  | ND           | 100             | 07/15/14 15:50 |            |
| Acrolein                    | ug/L  | ND           | 50.0            | 07/15/14 15:50 |            |
| Acrylonitrile               | ug/L  | ND           | 100             | 07/15/14 15:50 |            |
| Benzene                     | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Bromobenzene                | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Bromochloromethane          | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Bromodichloromethane        | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Bromoform                   | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Bromomethane                | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Carbon disulfide            | ug/L  | ND           | 10.0            | 07/15/14 15:50 |            |
| Carbon tetrachloride        | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Chlorobenzene               | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Chloroethane                | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Chloroform                  | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Chloromethane               | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| cis-1,2-Dichloroethene      | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

METHOD BLANK: 1128505

Matrix: Water

Associated Lab Samples: 50100317001, 50100317002, 50100317004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Dibromochloromethane        | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Dibromomethane              | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Dichlorodifluoromethane     | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Ethyl methacrylate          | ug/L  | ND           | 100             | 07/15/14 15:50 |            |
| Ethylbenzene                | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Hexachloro-1,3-butadiene    | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Iodomethane                 | ug/L  | ND           | 10.0            | 07/15/14 15:50 |            |
| Isopropylbenzene (Cumene)   | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Methyl-tert-butyl ether     | ug/L  | ND           | 4.0             | 07/15/14 15:50 |            |
| Methylene Chloride          | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| n-Butylbenzene              | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| n-Hexane                    | ug/L  | ND           | 5.0             | 07/15/14 15:50 | N2         |
| n-Propylbenzene             | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Naphthalene                 | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| p-Isopropyltoluene          | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| sec-Butylbenzene            | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Styrene                     | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| tert-Butylbenzene           | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Tetrachloroethene           | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Toluene                     | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| trans-1,2-Dichloroethene    | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| trans-1,3-Dichloropropene   | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | ND           | 100             | 07/15/14 15:50 |            |
| Trichloroethene             | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Trichlorofluoromethane      | ug/L  | ND           | 5.0             | 07/15/14 15:50 |            |
| Vinyl acetate               | ug/L  | ND           | 50.0            | 07/15/14 15:50 |            |
| Vinyl chloride              | ug/L  | ND           | 2.0             | 07/15/14 15:50 |            |
| Xylene (Total)              | ug/L  | ND           | 10.0            | 07/15/14 15:50 |            |
| 4-Bromofluorobenzene (S)    | %     | 90           | 80-114          | 07/15/14 15:50 |            |
| Dibromofluoromethane (S)    | %     | 103          | 79-116          | 07/15/14 15:50 |            |
| Toluene-d8 (S)              | %     | 91           | 81-110          | 07/15/14 15:50 |            |

LABORATORY CONTROL SAMPLE: 1128506

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 45.6       | 91        | 61-135       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 39.8       | 80        | 71-129       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 43.5       | 87        | 66-126       |            |
| 1,1,2-Trichloroethane     | ug/L  | 50          | 44.8       | 90        | 77-130       |            |
| 1,1-Dichloroethane        | ug/L  | 50          | 42.6       | 85        | 75-130       |            |
| 1,1-Dichloroethene        | ug/L  | 50          | 53.5       | 107       | 68-127       |            |
| 1,1-Dichloropropene       | ug/L  | 50          | 47.3       | 95        | 78-130       |            |
| 1,2,3-Trichlorobenzene    | ug/L  | 50          | 48.4       | 97        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

LABORATORY CONTROL SAMPLE: 1128506

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,3-Trichloropropane      | ug/L  | 50          | 45.1       | 90        | 58-142       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 48.8       | 98        | 68-131       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 45.1       | 90        | 69-127       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 48.4       | 97        | 76-125       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 51.0       | 102       | 75-123       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 42.2       | 84        | 75-128       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 44.1       | 88        | 74-121       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 45.3       | 91        | 70-126       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 51.2       | 102       | 74-122       |            |
| 1,3-Dichloropropane         | ug/L  | 50          | 44.7       | 89        | 74-123       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 50.4       | 101       | 76-120       |            |
| 2,2-Dichloropropane         | ug/L  | 50          | 36.4       | 73        | 50-137       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 225        | 90        | 58-139       |            |
| 2-Chlorotoluene             | ug/L  | 50          | 44.5       | 89        | 74-122       |            |
| 2-Hexanone                  | ug/L  | 250         | 203        | 81        | 54-140       |            |
| 4-Chlorotoluene             | ug/L  | 50          | 49.8       | 100       | 77-123       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 208        | 83        | 58-138       |            |
| Acetone                     | ug/L  | 250         | 251        | 101       | 49-150       |            |
| Acrolein                    | ug/L  | 1000        | 1220       | 122       | 41-200       |            |
| Acrylonitrile               | ug/L  | 1000        | 881        | 88        | 63-137       |            |
| Benzene                     | ug/L  | 50          | 50.7       | 101       | 74-122       |            |
| Bromobenzene                | ug/L  | 50          | 44.7       | 89        | 72-127       |            |
| Bromochloromethane          | ug/L  | 50          | 43.3       | 87        | 63-132       |            |
| Bromodichloromethane        | ug/L  | 50          | 43.6       | 87        | 62-136       |            |
| Bromoform                   | ug/L  | 50          | 30.3       | 61        | 44-134       |            |
| Bromomethane                | ug/L  | 50          | 74.5       | 149       | 22-181       |            |
| Carbon disulfide            | ug/L  | 100         | 109        | 109       | 59-132       |            |
| Carbon tetrachloride        | ug/L  | 50          | 40.2       | 80        | 56-137       |            |
| Chlorobenzene               | ug/L  | 50          | 50.9       | 102       | 78-123       |            |
| Chloroethane                | ug/L  | 50          | 44.1       | 88        | 60-144       |            |
| Chloroform                  | ug/L  | 50          | 46.8       | 94        | 78-126       |            |
| Chloromethane               | ug/L  | 50          | 35.4       | 71        | 42-134       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 51.3       | 103       | 75-122       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | 40.0       | 80        | 64-126       |            |
| Dibromochloromethane        | ug/L  | 50          | 44.1       | 88        | 58-128       |            |
| Dibromomethane              | ug/L  | 50          | 45.4       | 91        | 73-125       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 48.8       | 98        | 35-181       |            |
| Ethyl methacrylate          | ug/L  | 200         | 171        | 86        | 69-133       |            |
| Ethylbenzene                | ug/L  | 50          | 46.5       | 93        | 66-133       |            |
| Hexachloro-1,3-butadiene    | ug/L  | 50          | 44.7       | 89        | 59-145       |            |
| Iodomethane                 | ug/L  | 100         | 115        | 115       | 21-170       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 49.9       | 100       | 69-124       |            |
| Methyl-tert-butyl ether     | ug/L  | 100         | 81.5       | 82        | 69-122       |            |
| Methylene Chloride          | ug/L  | 50          | 50.3       | 101       | 68-132       |            |
| n-Butylbenzene              | ug/L  | 50          | 47.8       | 96        | 70-126       |            |
| n-Hexane                    | ug/L  | 50          | 54.5       | 109       | 51-125 N2    |            |
| n-Propylbenzene             | ug/L  | 50          | 47.0       | 94        | 71-122       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

LABORATORY CONTROL SAMPLE: 1128506

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Naphthalene                 | ug/L  | 50          | 45.8       | 92        | 68-127       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 46.8       | 94        | 72-132       |            |
| sec-Butylbenzene            | ug/L  | 50          | 47.9       | 96        | 70-128       |            |
| Styrene                     | ug/L  | 50          | 51.8       | 104       | 74-126       |            |
| tert-Butylbenzene           | ug/L  | 50          | 38.8       | 78        | 51-118       |            |
| Tetrachloroethene           | ug/L  | 50          | 50.7       | 101       | 69-130       |            |
| Toluene                     | ug/L  | 50          | 48.5       | 97        | 72-122       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 49.7       | 99        | 72-124       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | 37.2       | 74        | 64-121       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 159        | 79        | 56-133       |            |
| Trichloroethene             | ug/L  | 50          | 45.6       | 91        | 76-126       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 49.5       | 99        | 76-149       |            |
| Vinyl acetate               | ug/L  | 200         | 172        | 86        | 45-151       |            |
| Vinyl chloride              | ug/L  | 50          | 45.8       | 92        | 59-126       |            |
| Xylene (Total)              | ug/L  | 150         | 147        | 98        | 70-124       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 96        | 80-114       |            |
| Dibromofluoromethane (S)    | %     |             |            | 98        | 79-116       |            |
| Toluene-d8 (S)              | %     |             |            | 93        | 81-110       |            |

MATRIX SPIKE SAMPLE: 1128507

| Parameter                 | Units | 50100317001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  |                    | ND          | 50        | 42.7     | 85           | 50-132     |
| 1,1,1-Trichloroethane     | ug/L  |                    | 6.2         | 50        | 49.4     | 86           | 60-138     |
| 1,1,2,2-Tetrachloroethane | ug/L  |                    | ND          | 50        | 46.9     | 94           | 55-128     |
| 1,1,2-Trichloroethane     | ug/L  |                    | ND          | 50        | 44.7     | 89           | 61-139     |
| 1,1-Dichloroethane        | ug/L  |                    | ND          | 50        | 46.5     | 93           | 57-147     |
| 1,1-Dichloroethene        | ug/L  |                    | ND          | 50        | 58.5     | 117          | 55-145     |
| 1,1-Dichloropropene       | ug/L  |                    | ND          | 50        | 51.6     | 103          | 55-147     |
| 1,2,3-Trichlorobenzene    | ug/L  |                    | ND          | 50        | 51.1     | 102          | 31-141     |
| 1,2,3-Trichloropropane    | ug/L  |                    | ND          | 50        | 48.4     | 97           | 58-133     |
| 1,2,4-Trichlorobenzene    | ug/L  |                    | ND          | 50        | 50.1     | 100          | 25-143     |
| 1,2,4-Trimethylbenzene    | ug/L  |                    | ND          | 50        | 48.3     | 97           | 18-149     |
| 1,2-Dibromoethane (EDB)   | ug/L  |                    | ND          | 50        | 49.4     | 99           | 63-129     |
| 1,2-Dichlorobenzene       | ug/L  |                    | ND          | 50        | 53.2     | 106          | 38-136     |
| 1,2-Dichloroethane        | ug/L  |                    | ND          | 50        | 45.1     | 90           | 62-138     |
| 1,2-Dichloropropane       | ug/L  |                    | ND          | 50        | 47.5     | 95           | 59-130     |
| 1,3,5-Trimethylbenzene    | ug/L  |                    | ND          | 50        | 47.3     | 95           | 20-147     |
| 1,3-Dichlorobenzene       | ug/L  |                    | ND          | 50        | 52.6     | 105          | 28-141     |
| 1,3-Dichloropropane       | ug/L  |                    | ND          | 50        | 46.3     | 93           | 62-127     |
| 1,4-Dichlorobenzene       | ug/L  |                    | ND          | 50        | 52.8     | 106          | 30-139     |
| 2,2-Dichloropropane       | ug/L  |                    | ND          | 50        | 34.2     | 68           | 37-139     |
| 2-Butanone (MEK)          | ug/L  |                    | ND          | 250       | 240      | 96           | 37-156     |
| 2-Chlorotoluene           | ug/L  |                    | ND          | 50        | 47.5     | 95           | 27-142     |
| 2-Hexanone                | ug/L  |                    | ND          | 250       | 213      | 85           | 44-143     |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

| MATRIX SPIKE SAMPLE: 1128507 |       | 50100317001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| 4-Chlorotoluene              | ug/L  | ND          | 50    | 51.0   | 102   | 27-144 |            |
| 4-Methyl-2-pentanone (MIBK)  | ug/L  | ND          | 250   | 212    | 85    | 46-144 |            |
| Acetone                      | ug/L  | ND          | 250   | 261    | 104   | 39-156 |            |
| Acrolein                     | ug/L  | ND          | 1000  | 1220   | 122   | 33-200 |            |
| Acrylonitrile                | ug/L  | ND          | 1000  | 939    | 94    | 48-149 |            |
| Benzene                      | ug/L  | ND          | 50    | 55.2   | 110   | 62-129 |            |
| Bromobenzene                 | ug/L  | ND          | 50    | 45.2   | 90    | 39-140 |            |
| Bromochloromethane           | ug/L  | ND          | 50    | 44.9   | 90    | 49-142 |            |
| Bromodichloromethane         | ug/L  | ND          | 50    | 43.6   | 87    | 50-142 |            |
| Bromoform                    | ug/L  | ND          | 50    | 28.7   | 57    | 36-125 |            |
| Bromomethane                 | ug/L  | ND          | 50    | 69.3   | 139   | 13-179 |            |
| Carbon disulfide             | ug/L  | ND          | 100   | 120    | 120   | 45-142 |            |
| Carbon tetrachloride         | ug/L  | ND          | 50    | 39.5   | 79    | 46-142 |            |
| Chlorobenzene                | ug/L  | ND          | 50    | 52.3   | 105   | 49-136 |            |
| Chloroethane                 | ug/L  | ND          | 50    | 48.7   | 97    | 47-160 |            |
| Chloroform                   | ug/L  | ND          | 50    | 49.4   | 99    | 54-150 |            |
| Chloromethane                | ug/L  | ND          | 50    | 37.7   | 75    | 30-148 |            |
| cis-1,2-Dichloroethene       | ug/L  | ND          | 50    | 54.6   | 109   | 60-135 |            |
| cis-1,3-Dichloropropene      | ug/L  | ND          | 50    | 38.0   | 76    | 52-123 |            |
| Dibromochloromethane         | ug/L  | ND          | 50    | 40.6   | 81    | 48-125 |            |
| Dibromomethane               | ug/L  | ND          | 50    | 46.8   | 94    | 59-134 |            |
| Dichlorodifluoromethane      | ug/L  | ND          | 50    | 53.6   | 107   | 24-197 |            |
| Ethyl methacrylate           | ug/L  | ND          | 200   | 177    | 89    | 55-139 |            |
| Ethylbenzene                 | ug/L  | ND          | 50    | 47.4   | 95    | 28-153 |            |
| Hexachloro-1,3-butadiene     | ug/L  | ND          | 50    | 45.0   | 90    | 10-176 |            |
| Iodomethane                  | ug/L  | ND          | 100   | 121    | 121   | 17-157 |            |
| Isopropylbenzene (Cumene)    | ug/L  | ND          | 50    | 50.4   | 101   | 18-152 |            |
| Methyl-tert-butyl ether      | ug/L  | ND          | 100   | 88.4   | 88    | 63-130 |            |
| Methylene Chloride           | ug/L  | ND          | 50    | 52.7   | 105   | 45-156 |            |
| n-Butylbenzene               | ug/L  | ND          | 50    | 48.8   | 98    | 10-161 |            |
| n-Hexane                     | ug/L  | ND          | 50    | 52.7   | 103   | 33-144 | N2         |
| n-Propylbenzene              | ug/L  | ND          | 50    | 49.7   | 99    | 16-150 |            |
| Naphthalene                  | ug/L  | ND          | 50    | 47.6   | 95    | 39-140 |            |
| p-Isopropyltoluene           | ug/L  | ND          | 50    | 49.1   | 98    | 10-163 |            |
| sec-Butylbenzene             | ug/L  | ND          | 50    | 51.1   | 102   | 10-160 |            |
| Styrene                      | ug/L  | ND          | 50    | 51.5   | 103   | 36-139 |            |
| tert-Butylbenzene            | ug/L  | ND          | 50    | 42.4   | 85    | 12-134 |            |
| Tetrachloroethene            | ug/L  | ND          | 50    | 54.0   | 105   | 33-151 |            |
| Toluene                      | ug/L  | ND          | 50    | 49.6   | 99    | 50-132 |            |
| trans-1,2-Dichloroethene     | ug/L  | ND          | 50    | 54.0   | 108   | 40-153 |            |
| trans-1,3-Dichloropropene    | ug/L  | ND          | 50    | 35.5   | 71    | 48-122 |            |
| trans-1,4-Dichloro-2-butene  | ug/L  | ND          | 200   | 151    | 75    | 32-139 |            |
| Trichloroethene              | ug/L  | ND          | 50    | 49.8   | 100   | 50-143 |            |
| Trichlorofluoromethane       | ug/L  | ND          | 50    | 54.9   | 110   | 60-175 |            |
| Vinyl acetate                | ug/L  | ND          | 200   | 154    | 77    | 17-142 |            |
| Vinyl chloride               | ug/L  | ND          | 50    | 51.2   | 102   | 44-145 |            |
| Xylene (Total)               | ug/L  | ND          | 150   | 151    | 101   | 29-145 |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

| MATRIX SPIKE SAMPLE: 1128507 |       | 50100317001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| 4-Bromofluorobenzene (S)     | %.    |             |       |        | 91    | 80-114 |            |
| Dibromofluoromethane (S)     | %.    |             |       |        | 100   | 79-116 |            |
| Toluene-d8 (S)               | %.    |             |       |        | 93    | 81-110 |            |

SAMPLE DUPLICATE: 1128508

| Parameter                   | Units | 50100317002 | Dup    | RPD | Max | Qualifiers |
|-----------------------------|-------|-------------|--------|-----|-----|------------|
|                             |       | Result      | Result |     | RPD |            |
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND          | ND     |     | 20  |            |
| 1,1,1-Trichloroethane       | ug/L  | ND          | 3.9J   |     | 20  |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND          | ND     |     | 20  |            |
| 1,1,2-Trichloroethane       | ug/L  | ND          | ND     |     | 20  |            |
| 1,1-Dichloroethane          | ug/L  | ND          | ND     |     | 20  |            |
| 1,1-Dichloroethene          | ug/L  | ND          | ND     |     | 20  |            |
| 1,1-Dichloropropene         | ug/L  | ND          | ND     |     | 20  |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND          | ND     |     | 20  |            |
| 1,2,3-Trichloropropane      | ug/L  | ND          | ND     |     | 20  |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND          | ND     |     | 20  |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND          | ND     |     | 20  |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND          | ND     |     | 20  |            |
| 1,2-Dichlorobenzene         | ug/L  | ND          | ND     |     | 20  |            |
| 1,2-Dichloroethane          | ug/L  | ND          | ND     |     | 20  |            |
| 1,2-Dichloropropane         | ug/L  | ND          | ND     |     | 20  |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND          | ND     |     | 20  |            |
| 1,3-Dichlorobenzene         | ug/L  | ND          | ND     |     | 20  |            |
| 1,3-Dichloropropane         | ug/L  | ND          | ND     |     | 20  |            |
| 1,4-Dichlorobenzene         | ug/L  | ND          | ND     |     | 20  |            |
| 2,2-Dichloropropane         | ug/L  | ND          | ND     |     | 20  |            |
| 2-Butanone (MEK)            | ug/L  | ND          | ND     |     | 20  |            |
| 2-Chlorotoluene             | ug/L  | ND          | ND     |     | 20  |            |
| 2-Hexanone                  | ug/L  | ND          | ND     |     | 20  |            |
| 4-Chlorotoluene             | ug/L  | ND          | ND     |     | 20  |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND          | ND     |     | 20  |            |
| Acetone                     | ug/L  | ND          | ND     |     | 20  |            |
| Acrolein                    | ug/L  | ND          | ND     |     | 20  |            |
| Acrylonitrile               | ug/L  | ND          | ND     |     | 20  |            |
| Benzene                     | ug/L  | ND          | ND     |     | 20  |            |
| Bromobenzene                | ug/L  | ND          | ND     |     | 20  |            |
| Bromochloromethane          | ug/L  | ND          | ND     |     | 20  |            |
| Bromodichloromethane        | ug/L  | ND          | ND     |     | 20  |            |
| Bromoform                   | ug/L  | ND          | ND     |     | 20  |            |
| Bromomethane                | ug/L  | ND          | ND     |     | 20  |            |
| Carbon disulfide            | ug/L  | ND          | ND     |     | 20  |            |
| Carbon tetrachloride        | ug/L  | ND          | ND     |     | 20  |            |
| Chlorobenzene               | ug/L  | ND          | ND     |     | 20  |            |
| Chloroethane                | ug/L  | ND          | ND     |     | 20  |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

SAMPLE DUPLICATE: 1128508

| Parameter                   | Units | 50100317002<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Chloroform                  | ug/L  | ND                    | ND            |     | 20         |            |
| Chloromethane               | ug/L  | ND                    | ND            |     | 20         |            |
| cis-1,2-Dichloroethene      | ug/L  | ND                    | ND            |     | 20         |            |
| cis-1,3-Dichloropropene     | ug/L  | ND                    | ND            |     | 20         |            |
| Dibromochloromethane        | ug/L  | ND                    | ND            |     | 20         |            |
| Dibromomethane              | ug/L  | ND                    | ND            |     | 20         |            |
| Dichlorodifluoromethane     | ug/L  | ND                    | ND            |     | 20         |            |
| Ethyl methacrylate          | ug/L  | ND                    | ND            |     | 20         |            |
| Ethylbenzene                | ug/L  | ND                    | ND            |     | 20         |            |
| Hexachloro-1,3-butadiene    | ug/L  | ND                    | ND            |     | 20         |            |
| Iodomethane                 | ug/L  | ND                    | ND            |     | 20         |            |
| Isopropylbenzene (Cumene)   | ug/L  | ND                    | ND            |     | 20         |            |
| Methyl-tert-butyl ether     | ug/L  | ND                    | ND            |     | 20         |            |
| Methylene Chloride          | ug/L  | ND                    | ND            |     | 20         |            |
| n-Butylbenzene              | ug/L  | ND                    | ND            |     | 20         |            |
| n-Hexane                    | ug/L  | ND                    | ND            |     | 20         | N2         |
| n-Propylbenzene             | ug/L  | ND                    | ND            |     | 20         |            |
| Naphthalene                 | ug/L  | ND                    | ND            |     | 20         |            |
| p-Isopropyltoluene          | ug/L  | ND                    | ND            |     | 20         |            |
| sec-Butylbenzene            | ug/L  | ND                    | ND            |     | 20         |            |
| Styrene                     | ug/L  | ND                    | ND            |     | 20         |            |
| tert-Butylbenzene           | ug/L  | ND                    | ND            |     | 20         |            |
| Tetrachloroethene           | ug/L  | 6.6                   | 5.9           | 11  | 20         |            |
| Toluene                     | ug/L  | ND                    | ND            |     | 20         |            |
| trans-1,2-Dichloroethene    | ug/L  | ND                    | ND            |     | 20         |            |
| trans-1,3-Dichloropropene   | ug/L  | ND                    | ND            |     | 20         |            |
| trans-1,4-Dichloro-2-butene | ug/L  | ND                    | ND            |     | 20         |            |
| Trichloroethene             | ug/L  | ND                    | ND            |     | 20         |            |
| Trichlorofluoromethane      | ug/L  | ND                    | ND            |     | 20         |            |
| Vinyl acetate               | ug/L  | ND                    | ND            |     | 20         |            |
| Vinyl chloride              | ug/L  | ND                    | ND            |     | 20         |            |
| Xylene (Total)              | ug/L  | ND                    | ND            |     | 20         |            |
| 4-Bromofluorobenzene (S)    | %.    | 93                    | 94            | 1   |            |            |
| Dibromofluoromethane (S)    | %.    | 97                    | 99            | 2   |            |            |
| Toluene-d8 (S)              | %.    | 91                    | 92            | 1   |            |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

QC Batch: MSV/66866 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 50100317005, 50100317006, 50100317007, 50100317008, 50100317009, 50100317010, 50100317011, 50100317012, 50100317013, 50100317014

METHOD BLANK: 1128509 Matrix: Water  
 Associated Lab Samples: 50100317005, 50100317006, 50100317007, 50100317008, 50100317009, 50100317010, 50100317011, 50100317012, 50100317013, 50100317014

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,1,1-Trichloroethane       | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,1,2-Trichloroethane       | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,1-Dichloroethane          | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,1-Dichloroethene          | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,1-Dichloropropene         | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,2,3-Trichloropropane      | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,2-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,2-Dichloroethane          | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,2-Dichloropropane         | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,3-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,3-Dichloropropane         | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 1,4-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 2,2-Dichloropropane         | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 2-Butanone (MEK)            | ug/L  | ND           | 25.0            | 07/16/14 03:37 |            |
| 2-Chlorotoluene             | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 2-Hexanone                  | ug/L  | ND           | 25.0            | 07/16/14 03:37 |            |
| 4-Chlorotoluene             | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND           | 25.0            | 07/16/14 03:37 |            |
| Acetone                     | ug/L  | ND           | 100             | 07/16/14 03:37 |            |
| Acrolein                    | ug/L  | ND           | 50.0            | 07/16/14 03:37 |            |
| Acrylonitrile               | ug/L  | ND           | 100             | 07/16/14 03:37 |            |
| Benzene                     | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Bromobenzene                | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Bromochloromethane          | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Bromodichloromethane        | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Bromoform                   | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Bromomethane                | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Carbon disulfide            | ug/L  | ND           | 10.0            | 07/16/14 03:37 |            |
| Carbon tetrachloride        | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Chlorobenzene               | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Chloroethane                | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Chloroform                  | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Chloromethane               | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

METHOD BLANK: 1128509

Matrix: Water

Associated Lab Samples: 50100317005, 50100317006, 50100317007, 50100317008, 50100317009, 50100317010, 50100317011, 50100317012, 50100317013, 50100317014

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene      | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| cis-1,3-Dichloropropene     | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Dibromochloromethane        | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Dibromomethane              | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Dichlorodifluoromethane     | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Ethyl methacrylate          | ug/L  | ND           | 100             | 07/16/14 03:37 |            |
| Ethylbenzene                | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Hexachloro-1,3-butadiene    | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Iodomethane                 | ug/L  | ND           | 10.0            | 07/16/14 03:37 |            |
| Isopropylbenzene (Cumene)   | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Methyl-tert-butyl ether     | ug/L  | ND           | 4.0             | 07/16/14 03:37 |            |
| Methylene Chloride          | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| n-Butylbenzene              | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| n-Hexane                    | ug/L  | ND           | 5.0             | 07/16/14 03:37 | N2         |
| n-Propylbenzene             | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Naphthalene                 | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| p-Isopropyltoluene          | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| sec-Butylbenzene            | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Styrene                     | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| tert-Butylbenzene           | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Tetrachloroethene           | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Toluene                     | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| trans-1,2-Dichloroethene    | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| trans-1,3-Dichloropropene   | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | ND           | 100             | 07/16/14 03:37 |            |
| Trichloroethene             | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Trichlorofluoromethane      | ug/L  | ND           | 5.0             | 07/16/14 03:37 |            |
| Vinyl acetate               | ug/L  | ND           | 50.0            | 07/16/14 03:37 |            |
| Vinyl chloride              | ug/L  | ND           | 2.0             | 07/16/14 03:37 |            |
| Xylene (Total)              | ug/L  | ND           | 10.0            | 07/16/14 03:37 |            |
| 4-Bromofluorobenzene (S)    | %     | 94           | 80-114          | 07/16/14 03:37 |            |
| Dibromofluoromethane (S)    | %     | 105          | 79-116          | 07/16/14 03:37 |            |
| Toluene-d8 (S)              | %     | 90           | 81-110          | 07/16/14 03:37 |            |

LABORATORY CONTROL SAMPLE: 1128510

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 46.5       | 93        | 61-135       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 42.8       | 86        | 71-129       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 47.6       | 95        | 66-126       |            |
| 1,1,2-Trichloroethane     | ug/L  | 50          | 45.7       | 91        | 77-130       |            |
| 1,1-Dichloroethane        | ug/L  | 50          | 45.5       | 91        | 75-130       |            |
| 1,1-Dichloroethene        | ug/L  | 50          | 55.4       | 111       | 68-127       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

LABORATORY CONTROL SAMPLE: 1128510

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloropropene         | ug/L  | 50          | 50.2       | 100       | 78-130       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 52.0       | 104       | 70-130       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 50.0       | 100       | 58-142       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 51.3       | 103       | 68-131       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 47.1       | 94        | 69-127       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 51.1       | 102       | 76-125       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 53.4       | 107       | 75-123       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 46.3       | 93        | 75-128       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 47.3       | 95        | 74-121       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 47.6       | 95        | 70-126       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 52.5       | 105       | 74-122       |            |
| 1,3-Dichloropropane         | ug/L  | 50          | 47.2       | 94        | 74-123       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 52.1       | 104       | 76-120       |            |
| 2,2-Dichloropropane         | ug/L  | 50          | 33.3       | 67        | 50-137       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 245        | 98        | 58-139       |            |
| 2-Chlorotoluene             | ug/L  | 50          | 46.1       | 92        | 74-122       |            |
| 2-Hexanone                  | ug/L  | 250         | 218        | 87        | 54-140       |            |
| 4-Chlorotoluene             | ug/L  | 50          | 51.6       | 103       | 77-123       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 218        | 87        | 58-138       |            |
| Acetone                     | ug/L  | 250         | 270        | 108       | 49-150       |            |
| Acrolein                    | ug/L  | 1000        | 1270       | 127       | 41-200       |            |
| Acrylonitrile               | ug/L  | 1000        | 957        | 96        | 63-137       |            |
| Benzene                     | ug/L  | 50          | 54.0       | 108       | 74-122       |            |
| Bromobenzene                | ug/L  | 50          | 47.6       | 95        | 72-127       |            |
| Bromochloromethane          | ug/L  | 50          | 45.0       | 90        | 63-132       |            |
| Bromodichloromethane        | ug/L  | 50          | 47.0       | 94        | 62-136       |            |
| Bromoform                   | ug/L  | 50          | 32.6       | 65        | 44-134       |            |
| Bromomethane                | ug/L  | 50          | 89.6       | 179       | 22-181       |            |
| Carbon disulfide            | ug/L  | 100         | 115        | 115       | 59-132       |            |
| Carbon tetrachloride        | ug/L  | 50          | 42.5       | 85        | 56-137       |            |
| Chlorobenzene               | ug/L  | 50          | 52.7       | 105       | 78-123       |            |
| Chloroethane                | ug/L  | 50          | 46.6       | 93        | 60-144       |            |
| Chloroform                  | ug/L  | 50          | 49.3       | 99        | 78-126       |            |
| Chloromethane               | ug/L  | 50          | 37.3       | 75        | 42-134       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 54.5       | 109       | 75-122       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | 40.3       | 81        | 64-126       |            |
| Dibromochloromethane        | ug/L  | 50          | 45.6       | 91        | 58-128       |            |
| Dibromomethane              | ug/L  | 50          | 49.1       | 98        | 73-125       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 51.2       | 102       | 35-181       |            |
| Ethyl methacrylate          | ug/L  | 200         | 180        | 90        | 69-133       |            |
| Ethylbenzene                | ug/L  | 50          | 47.6       | 95        | 66-133       |            |
| Hexachloro-1,3-butadiene    | ug/L  | 50          | 45.4       | 91        | 59-145       |            |
| Iodomethane                 | ug/L  | 100         | 121        | 121       | 21-170       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 51.6       | 103       | 69-124       |            |
| Methyl-tert-butyl ether     | ug/L  | 100         | 88.2       | 88        | 69-122       |            |
| Methylene Chloride          | ug/L  | 50          | 54.3       | 109       | 68-132       |            |
| n-Butylbenzene              | ug/L  | 50          | 47.9       | 96        | 70-126       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

LABORATORY CONTROL SAMPLE: 1128510

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| n-Hexane                    | ug/L  | 50          | 50.4       | 101       | 51-125       | N2         |
| n-Propylbenzene             | ug/L  | 50          | 48.8       | 98        | 71-122       |            |
| Naphthalene                 | ug/L  | 50          | 48.7       | 97        | 68-127       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 48.8       | 98        | 72-132       |            |
| sec-Butylbenzene            | ug/L  | 50          | 49.6       | 99        | 70-128       |            |
| Styrene                     | ug/L  | 50          | 52.7       | 105       | 74-126       |            |
| tert-Butylbenzene           | ug/L  | 50          | 40.9       | 82        | 51-118       |            |
| Tetrachloroethene           | ug/L  | 50          | 51.1       | 102       | 69-130       |            |
| Toluene                     | ug/L  | 50          | 49.3       | 99        | 72-122       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 51.8       | 104       | 72-124       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | 38.2       | 76        | 64-121       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 156        | 78        | 56-133       |            |
| Trichloroethene             | ug/L  | 50          | 49.0       | 98        | 76-126       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 51.8       | 104       | 76-149       |            |
| Vinyl acetate               | ug/L  | 200         | 179        | 90        | 45-151       |            |
| Vinyl chloride              | ug/L  | 50          | 48.4       | 97        | 59-126       |            |
| Xylene (Total)              | ug/L  | 150         | 151        | 101       | 70-124       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 95        | 80-114       |            |
| Dibromofluoromethane (S)    | %     |             |            | 104       | 79-116       |            |
| Toluene-d8 (S)              | %     |             |            | 94        | 81-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1128511 1128512

| Parameter                 | 50100317009 |        | MS          | MSD         | MS   | MSD  | MS  | MSD | % Rec  | Max | Qual |
|---------------------------|-------------|--------|-------------|-------------|------|------|-----|-----|--------|-----|------|
|                           | Units       | Result | Spike Conc. | Spike Conc. |      |      |     |     |        |     |      |
| 1,1,1,2-Tetrachloroethane | ug/L        | ND     | 50          | 50          | 39.2 | 44.1 | 78  | 88  | 50-132 | 12  | 20   |
| 1,1,1-Trichloroethane     | ug/L        | ND     | 50          | 50          | 39.5 | 43.1 | 77  | 84  | 60-138 | 9   | 20   |
| 1,1,2,2-Tetrachloroethane | ug/L        | ND     | 50          | 50          | 43.4 | 43.7 | 87  | 87  | 55-128 | 1   | 20   |
| 1,1,2-Trichloroethane     | ug/L        | ND     | 50          | 50          | 42.2 | 43.3 | 84  | 87  | 61-139 | 3   | 20   |
| 1,1-Dichloroethane        | ug/L        | ND     | 50          | 50          | 40.4 | 44.2 | 81  | 88  | 57-147 | 9   | 20   |
| 1,1-Dichloroethene        | ug/L        | ND     | 50          | 50          | 52.5 | 56.3 | 105 | 113 | 55-145 | 7   | 20   |
| 1,1-Dichloropropene       | ug/L        | ND     | 50          | 50          | 47.3 | 49.6 | 95  | 99  | 55-147 | 5   | 20   |
| 1,2,3-Trichlorobenzene    | ug/L        | ND     | 50          | 50          | 46.1 | 45.6 | 92  | 91  | 31-141 | 1   | 20   |
| 1,2,3-Trichloropropane    | ug/L        | ND     | 50          | 50          | 45.4 | 45.6 | 91  | 91  | 58-133 | 0   | 20   |
| 1,2,4-Trichlorobenzene    | ug/L        | ND     | 50          | 50          | 45.1 | 44.9 | 90  | 90  | 25-143 | 0   | 20   |
| 1,2,4-Trimethylbenzene    | ug/L        | ND     | 50          | 50          | 42.6 | 44.2 | 85  | 88  | 18-149 | 4   | 20   |
| 1,2-Dibromoethane (EDB)   | ug/L        | ND     | 50          | 50          | 45.5 | 47.7 | 91  | 95  | 63-129 | 5   | 20   |
| 1,2-Dichlorobenzene       | ug/L        | ND     | 50          | 50          | 47.6 | 48.9 | 95  | 98  | 38-136 | 3   | 20   |
| 1,2-Dichloroethane        | ug/L        | ND     | 50          | 50          | 41.2 | 44.1 | 82  | 88  | 62-138 | 7   | 20   |
| 1,2-Dichloropropane       | ug/L        | ND     | 50          | 50          | 43.1 | 46.1 | 86  | 92  | 59-130 | 7   | 20   |
| 1,3,5-Trimethylbenzene    | ug/L        | ND     | 50          | 50          | 43.1 | 44.8 | 86  | 90  | 20-147 | 4   | 20   |
| 1,3-Dichlorobenzene       | ug/L        | ND     | 50          | 50          | 47.4 | 48.3 | 95  | 97  | 28-141 | 2   | 20   |
| 1,3-Dichloropropane       | ug/L        | ND     | 50          | 50          | 43.2 | 44.9 | 86  | 90  | 62-127 | 4   | 20   |
| 1,4-Dichlorobenzene       | ug/L        | ND     | 50          | 50          | 47.3 | 48.8 | 95  | 98  | 30-139 | 3   | 20   |
| 2,2-Dichloropropane       | ug/L        | ND     | 50          | 50          | 26.4 | 29.8 | 53  | 60  | 37-139 | 12  | 20   |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1128511 |       |                       | 1128512        |                |        |        |       |       |        |     |       |
|--|-------|-----------------------|----------------|----------------|--------|--------|-------|-------|--------|-----|-------|
| Parameter                                      | Units | 50100317009<br>Result | MS             | MSD            | MS     | MSD    | MS    | MSD   | % Rec  | Max | Qual  |
|  |       |                       | Spike<br>Conc. | Spike<br>Conc. | Result | Result | % Rec | % Rec | Limits | RPD |       |
| 2-Butanone (MEK)                               | ug/L  | ND                    | 250            | 250            | 229    | 223    | 92    | 89    | 37-156 | 3   | 20    |
| 2-Chlorotoluene                                | ug/L  | ND                    | 50             | 50             | 42.6   | 43.8   | 85    | 88    | 27-142 | 3   | 20    |
| 2-Hexanone                                     | ug/L  | ND                    | 250            | 250            | 203    | 196    | 81    | 78    | 44-143 | 3   | 20    |
| 4-Chlorotoluene                                | ug/L  | ND                    | 50             | 50             | 46.3   | 48.5   | 93    | 97    | 27-144 | 5   | 20    |
| 4-Methyl-2-pentanone (MIBK)                    | ug/L  | ND                    | 250            | 250            | 203    | 197    | 81    | 79    | 46-144 | 3   | 20    |
| Acetone  | ug/L  | ND                    | 250            | 250            | 251    | 248    | 100   | 99    | 39-156 | 1   | 20    |
| Acrolein                                       | ug/L  | ND                    | 1000           | 1000           | 1100   | 1100   | 110   | 110   | 33-200 | 1   | 20    |
| Acrylonitrile                                  | ug/L  | ND                    | 1000           | 1000           | 891    | 888    | 89    | 89    | 48-149 | 0   | 20    |
| Benzene  | ug/L  | ND                    | 50             | 50             | 50.0   | 52.8   | 100   | 106   | 62-129 | 5   | 20    |
| Bromobenzene                                   | ug/L  | ND                    | 50             | 50             | 41.7   | 44.2   | 83    | 88    | 39-140 | 6   | 20    |
| Bromochloromethane                             | ug/L  | ND                    | 50             | 50             | 42.3   | 43.8   | 85    | 88    | 49-142 | 3   | 20    |
| Bromodichloromethane                           | ug/L  | ND                    | 50             | 50             | 40.5   | 44.8   | 81    | 90    | 50-142 | 10  | 20    |
| Bromoform                                      | ug/L  | ND                    | 50             | 50             | 26.1   | 29.1   | 52    | 58    | 36-125 | 11  | 20    |
| Bromomethane                                   | ug/L  | ND                    | 50             | 50             | 64.2   | 86.6   | 128   | 173   | 13-179 | 30  | 20 R1 |
| Carbon disulfide                               | ug/L  | ND                    | 100            | 100            | 108    | 116    | 108   | 115   | 45-142 | 6   | 20    |
| Carbon tetrachloride                           | ug/L  | ND                    | 50             | 50             | 36.6   | 42.0   | 73    | 84    | 46-142 | 14  | 20    |
| Chlorobenzene                                  | ug/L  | ND                    | 50             | 50             | 47.8   | 49.9   | 96    | 100   | 49-136 | 4   | 20    |
| Chloroethane                                   | ug/L  | ND                    | 50             | 50             | 43.8   | 47.0   | 88    | 94    | 47-160 | 7   | 20    |
| Chloroform                                     | ug/L  | ND                    | 50             | 50             | 45.7   | 48.2   | 91    | 96    | 54-150 | 5   | 20    |
| Chloromethane                                  | ug/L  | ND                    | 50             | 50             | 35.5   | 37.2   | 71    | 74    | 30-148 | 5   | 20    |
| cis-1,2-Dichloroethene                         | ug/L  | ND                    | 50             | 50             | 49.8   | 53.1   | 100   | 106   | 60-135 | 6   | 20    |
| cis-1,3-Dichloropropene                        | ug/L  | ND                    | 50             | 50             | 33.8   | 36.8   | 68    | 74    | 52-123 | 9   | 20    |
| Dibromochloromethane                           | ug/L  | ND                    | 50             | 50             | 38.1   | 41.9   | 76    | 84    | 48-125 | 9   | 20    |
| Dibromomethane                                 | ug/L  | ND                    | 50             | 50             | 44.2   | 46.1   | 88    | 92    | 59-134 | 4   | 20    |
| Dichlorodifluoromethane                        | ug/L  | ND                    | 50             | 50             | 49.5   | 52.0   | 99    | 104   | 24-197 | 5   | 20    |
| Ethyl methacrylate                             | ug/L  | ND                    | 200            | 200            | 163    | 169    | 81    | 84    | 55-139 | 4   | 20    |
| Ethylbenzene                                   | ug/L  | ND                    | 50             | 50             | 43.9   | 46.1   | 88    | 92    | 28-153 | 5   | 20    |
| Hexachloro-1,3-butadiene                       | ug/L  | ND                    | 50             | 50             | 39.9   | 41.1   | 80    | 82    | 10-176 | 3   | 20    |
| Iodomethane                                    | ug/L  | ND                    | 100            | 100            | 108    | 125    | 108   | 125   | 17-157 | 15  | 20    |
| Isopropylbenzene (Cumene)                      | ug/L  | ND                    | 50             | 50             | 47.0   | 49.2   | 94    | 98    | 18-152 | 5   | 20    |
| Methyl-tert-butyl ether                        | ug/L  | ND                    | 100            | 100            | 78.1   | 83.4   | 78    | 83    | 63-130 | 7   | 20    |
| Methylene Chloride                             | ug/L  | ND                    | 50             | 50             | 49.6   | 52.1   | 99    | 104   | 45-156 | 5   | 20    |
| n-Butylbenzene                                 | ug/L  | ND                    | 50             | 50             | 44.3   | 44.2   | 89    | 88    | 10-161 | 0   | 20    |
| n-Hexane                                       | ug/L  | ND                    | 50             | 50             | 51.5   | 53.0   | 103   | 106   | 33-144 | 3   | 20 N2 |
| n-Propylbenzene                                | ug/L  | ND                    | 50             | 50             | 45.4   | 45.6   | 91    | 91    | 16-150 | 1   | 20    |
| Naphthalene                                    | ug/L  | ND                    | 50             | 50             | 43.6   | 42.9   | 87    | 86    | 39-140 | 2   | 20    |
| p-Isopropyltoluene                             | ug/L  | ND                    | 50             | 50             | 44.1   | 45.5   | 88    | 91    | 10-163 | 3   | 20    |
| sec-Butylbenzene                               | ug/L  | ND                    | 50             | 50             | 46.1   | 47.0   | 92    | 94    | 10-160 | 2   | 20    |
| Styrene  | ug/L  | ND                    | 50             | 50             | 47.0   | 50.1   | 94    | 100   | 36-139 | 6   | 20    |
| tert-Butylbenzene                              | ug/L  | ND                    | 50             | 50             | 37.1   | 38.7   | 74    | 77    | 12-134 | 4   | 20    |
| Tetrachloroethene                              | ug/L  | ND                    | 50             | 50             | 46.9   | 49.1   | 94    | 98    | 33-151 | 5   | 20    |
| Toluene  | ug/L  | ND                    | 50             | 50             | 45.4   | 47.5   | 90    | 95    | 50-132 | 5   | 20    |
| trans-1,2-Dichloroethene                       | ug/L  | ND                    | 50             | 50             | 49.3   | 52.5   | 99    | 105   | 40-153 | 6   | 20    |
| trans-1,3-Dichloropropene                      | ug/L  | ND                    | 50             | 50             | 31.8   | 35.4   | 64    | 71    | 48-122 | 11  | 20    |
| trans-1,4-Dichloro-2-butene                    | ug/L  | ND                    | 200            | 200            | 142    | 140    | 71    | 70    | 32-139 | 1   | 20    |
| Trichloroethene                                | ug/L  | ND                    | 50             | 50             | 45.1   | 47.4   | 90    | 95    | 50-143 | 5   | 20    |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

| Parameter                | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1128511 |        |                      | 1128512               |              |               | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
|--------------------------|--|--------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
|                          | 50100317009<br>Units                           | Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result |             |              |                 |            |     |      |
| Trichlorofluoromethane   | ug/L   | ND     | 50                   | 50                    | 49.9         | 53.0          | 100         | 106          | 60-175          | 6          | 20  |      |
| Vinyl acetate            | ug/L   | ND     | 200                  | 200                   | 122          | 133           | 61          | 66           | 17-142          | 8          | 20  |      |
| Vinyl chloride           | ug/L   | ND     | 50                   | 50                    | 46.5         | 49.0          | 93          | 98           | 44-145          | 5          | 20  |      |
| Xylene (Total)           | ug/L   | ND     | 150                  | 150                   | 137          | 145           | 92          | 97           | 29-145          | 5          | 20  |      |
| 4-Bromofluorobenzene (S) | %  |        |                      |                       |              |               | 92          | 96           | 80-114          |            |     |      |
| Dibromofluoromethane (S) | %  |        |                      |                       |              |               | 100         | 101          | 79-116          |            |     |      |
| Toluene-d8 (S)           | %  |        |                      |                       |              |               | 92          | 93           | 81-110          |            |     |      |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

QC Batch: MSV/66975

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50100317003

METHOD BLANK: 1129940

Matrix: Water

Associated Lab Samples: 50100317003

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,1,1-Trichloroethane       | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,1,2-Trichloroethane       | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,1-Dichloroethane          | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,1-Dichloroethene          | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,1-Dichloropropene         | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,2,3-Trichloropropane      | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,2-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,2-Dichloroethane          | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,2-Dichloropropane         | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,3-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,3-Dichloropropane         | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 1,4-Dichlorobenzene         | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 2,2-Dichloropropane         | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 2-Butanone (MEK)            | ug/L  | ND           | 25.0            | 07/16/14 13:52 |            |
| 2-Chlorotoluene             | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 2-Hexanone                  | ug/L  | ND           | 25.0            | 07/16/14 13:52 |            |
| 4-Chlorotoluene             | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND           | 25.0            | 07/16/14 13:52 |            |
| Acetone                     | ug/L  | ND           | 100             | 07/16/14 13:52 |            |
| Acrolein                    | ug/L  | ND           | 50.0            | 07/16/14 13:52 |            |
| Acrylonitrile               | ug/L  | ND           | 100             | 07/16/14 13:52 |            |
| Benzene                     | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Bromobenzene                | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Bromochloromethane          | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Bromodichloromethane        | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Bromoform                   | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Bromomethane                | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Carbon disulfide            | ug/L  | ND           | 10.0            | 07/16/14 13:52 |            |
| Carbon tetrachloride        | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Chlorobenzene               | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Chloroethane                | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Chloroform                  | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Chloromethane               | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| cis-1,2-Dichloroethene      | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

METHOD BLANK: 1129940

Matrix: Water

Associated Lab Samples: 50100317003

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Dibromochloromethane        | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Dibromomethane              | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Dichlorodifluoromethane     | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Ethyl methacrylate          | ug/L  | ND           | 100             | 07/16/14 13:52 |            |
| Ethylbenzene                | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Hexachloro-1,3-butadiene    | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Iodomethane                 | ug/L  | ND           | 10.0            | 07/16/14 13:52 |            |
| Isopropylbenzene (Cumene)   | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Methyl-tert-butyl ether     | ug/L  | ND           | 4.0             | 07/16/14 13:52 |            |
| Methylene Chloride          | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| n-Butylbenzene              | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| n-Hexane                    | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| n-Propylbenzene             | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Naphthalene                 | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| p-Isopropyltoluene          | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| sec-Butylbenzene            | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Styrene                     | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| tert-Butylbenzene           | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Tetrachloroethene           | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Toluene                     | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| trans-1,2-Dichloroethene    | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| trans-1,3-Dichloropropene   | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | ND           | 100             | 07/16/14 13:52 |            |
| Trichloroethene             | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Trichlorofluoromethane      | ug/L  | ND           | 5.0             | 07/16/14 13:52 |            |
| Vinyl acetate               | ug/L  | ND           | 50.0            | 07/16/14 13:52 |            |
| Vinyl chloride              | ug/L  | ND           | 2.0             | 07/16/14 13:52 |            |
| Xylene (Total)              | ug/L  | ND           | 10.0            | 07/16/14 13:52 |            |
| 4-Bromofluorobenzene (S)    | %     | 97           | 80-114          | 07/16/14 13:52 |            |
| Dibromofluoromethane (S)    | %     | 95           | 79-116          | 07/16/14 13:52 |            |
| Toluene-d8 (S)              | %     | 102          | 81-110          | 07/16/14 13:52 |            |

LABORATORY CONTROL SAMPLE: 1129941

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 47.9       | 96        | 61-135       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 43.7       | 87        | 71-129       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 53.8       | 108       | 66-126       |            |
| 1,1,2-Trichloroethane     | ug/L  | 50          | 52.4       | 105       | 77-130       |            |
| 1,1-Dichloroethane        | ug/L  | 50          | 57.9       | 116       | 75-130       |            |
| 1,1-Dichloroethene        | ug/L  | 50          | 54.3       | 109       | 68-127       |            |
| 1,1-Dichloropropene       | ug/L  | 50          | 51.2       | 102       | 78-130       |            |
| 1,2,3-Trichlorobenzene    | ug/L  | 50          | 55.7       | 111       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

LABORATORY CONTROL SAMPLE: 1129941

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,3-Trichloropropane      | ug/L  | 50          | 51.5       | 103       | 58-142       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 53.3       | 107       | 68-131       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 51.1       | 102       | 69-127       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 59.2       | 118       | 76-125       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 52.0       | 104       | 75-123       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 52.0       | 104       | 75-128       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 51.8       | 104       | 74-121       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 52.7       | 105       | 70-126       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 49.5       | 99        | 74-122       |            |
| 1,3-Dichloropropane         | ug/L  | 50          | 52.2       | 104       | 74-123       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 49.3       | 99        | 76-120       |            |
| 2,2-Dichloropropane         | ug/L  | 50          | 41.2       | 82        | 50-137       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 282        | 113       | 58-139       |            |
| 2-Chlorotoluene             | ug/L  | 50          | 49.6       | 99        | 74-122       |            |
| 2-Hexanone                  | ug/L  | 250         | 314        | 126       | 54-140       |            |
| 4-Chlorotoluene             | ug/L  | 50          | 51.1       | 102       | 77-123       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 296        | 118       | 58-138       |            |
| Acetone                     | ug/L  | 250         | 376        | 150       | 49-150       |            |
| Acrolein                    | ug/L  | 1000        | 1480       | 148       | 41-200       |            |
| Acrylonitrile               | ug/L  | 1000        | 1190       | 119       | 63-137       |            |
| Benzene                     | ug/L  | 50          | 52.0       | 104       | 74-122       |            |
| Bromobenzene                | ug/L  | 50          | 52.0       | 104       | 72-127       |            |
| Bromochloromethane          | ug/L  | 50          | 48.7       | 97        | 63-132       |            |
| Bromodichloromethane        | ug/L  | 50          | 45.6       | 91        | 62-136       |            |
| Bromoform                   | ug/L  | 50          | 47.7       | 95        | 44-134       |            |
| Bromomethane                | ug/L  | 50          | 58.9       | 118       | 22-181       |            |
| Carbon disulfide            | ug/L  | 100         | 114        | 114       | 59-132       |            |
| Carbon tetrachloride        | ug/L  | 50          | 46.8       | 94        | 56-137       |            |
| Chlorobenzene               | ug/L  | 50          | 50.9       | 102       | 78-123       |            |
| Chloroethane                | ug/L  | 50          | 68.0       | 136       | 60-144       |            |
| Chloroform                  | ug/L  | 50          | 51.6       | 103       | 78-126       |            |
| Chloromethane               | ug/L  | 50          | 53.2       | 106       | 42-134       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 45.8       | 92        | 75-122       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | 47.7       | 95        | 64-126       |            |
| Dibromochloromethane        | ug/L  | 50          | 42.2       | 84        | 58-128       |            |
| Dibromomethane              | ug/L  | 50          | 51.1       | 102       | 73-125       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 51.0       | 102       | 35-181       |            |
| Ethyl methacrylate          | ug/L  | 200         | 211        | 106       | 69-133       |            |
| Ethylbenzene                | ug/L  | 50          | 51.7       | 103       | 66-133       |            |
| Hexachloro-1,3-butadiene    | ug/L  | 50          | 45.9       | 92        | 59-145       |            |
| Iodomethane                 | ug/L  | 100         | 119        | 119       | 21-170       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 56.3       | 113       | 69-124       |            |
| Methyl-tert-butyl ether     | ug/L  | 100         | 108        | 108       | 69-122       |            |
| Methylene Chloride          | ug/L  | 50          | 53.5       | 107       | 68-132       |            |
| n-Butylbenzene              | ug/L  | 50          | 54.8       | 110       | 70-126       |            |
| n-Hexane                    | ug/L  | 50          | 53.0       | 106       | 51-125       |            |
| n-Propylbenzene             | ug/L  | 50          | 52.4       | 105       | 71-122       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

LABORATORY CONTROL SAMPLE: 1129941

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Naphthalene                 | ug/L  | 50          | 57.4       | 115       | 68-127       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 52.3       | 105       | 72-132       |            |
| sec-Butylbenzene            | ug/L  | 50          | 53.9       | 108       | 70-128       |            |
| Styrene                     | ug/L  | 50          | 56.1       | 112       | 74-126       |            |
| tert-Butylbenzene           | ug/L  | 50          | 48.8       | 98        | 51-118       |            |
| Tetrachloroethene           | ug/L  | 50          | 48.8       | 98        | 69-130       |            |
| Toluene                     | ug/L  | 50          | 51.4       | 103       | 72-122       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 54.2       | 108       | 72-124       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | 48.0       | 96        | 64-121       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 211        | 106       | 56-133       |            |
| Trichloroethene             | ug/L  | 50          | 46.2       | 92        | 76-126       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 50.8       | 102       | 76-149       |            |
| Vinyl acetate               | ug/L  | 200         | 243        | 122       | 45-151       |            |
| Vinyl chloride              | ug/L  | 50          | 55.0       | 110       | 59-126       |            |
| Xylene (Total)              | ug/L  | 150         | 164        | 109       | 70-124       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 103       | 80-114       |            |
| Dibromofluoromethane (S)    | %     |             |            | 99        | 79-116       |            |
| Toluene-d8 (S)              | %     |             |            | 101       | 81-110       |            |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

QC Batch: OEXT/36361 Analysis Method: EPA 8270  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV  
 Associated Lab Samples: 50100317001, 50100317002, 50100317003, 50100317004, 50100317005, 50100317006, 50100317007, 50100317008, 50100317009, 50100317010, 50100317011, 50100317012, 50100317014

METHOD BLANK: 1124628 Matrix: Water  
 Associated Lab Samples: 50100317001, 50100317002, 50100317003, 50100317004, 50100317005, 50100317006, 50100317007, 50100317008, 50100317009, 50100317010, 50100317011, 50100317012, 50100317014

| Parameter                       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------|-------|--------------|-----------------|----------------|------------|
| 2,4,5-Trichlorophenol           | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2,4,6-Trichlorophenol           | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2,4-Dichlorophenol              | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2,4-Dimethylphenol              | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2,4-Dinitrophenol               | ug/L  | ND           | 50.0            | 07/10/14 01:01 |            |
| 2,4-Dinitrotoluene              | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2,6-Dinitrotoluene              | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2-Chloronaphthalene             | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2-Chlorophenol                  | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2-Methylnaphthalene             | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2-Methylphenol(o-Cresol)        | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2-Nitroaniline                  | ug/L  | ND           | 50.0            | 07/10/14 01:01 |            |
| 2-Nitrophenol                   | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 3&4-Methylphenol(m&p Cresol)    | ug/L  | ND           | 20.0            | 07/10/14 01:01 |            |
| 3,3'-Dichlorobenzidine          | ug/L  | ND           | 20.0            | 07/10/14 01:01 |            |
| 3-Nitroaniline                  | ug/L  | ND           | 50.0            | 07/10/14 01:01 |            |
| 4,6-Dinitro-2-methylphenol      | ug/L  | ND           | 50.0            | 07/10/14 01:01 |            |
| 4-Bromophenylphenyl ether       | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 4-Chloro-3-methylphenol         | ug/L  | ND           | 20.0            | 07/10/14 01:01 |            |
| 4-Chloroaniline                 | ug/L  | ND           | 20.0            | 07/10/14 01:01 |            |
| 4-Chlorophenylphenyl ether      | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 4-Nitroaniline                  | ug/L  | ND           | 50.0            | 07/10/14 01:01 |            |
| 4-Nitrophenol                   | ug/L  | ND           | 50.0            | 07/10/14 01:01 |            |
| Acenaphthene                    | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Acenaphthylene                  | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Anthracene                      | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Benzo(a)anthracene              | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Benzo(a)pyrene                  | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Benzo(b)fluoranthene            | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Benzo(g,h,i)perylene            | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Benzo(k)fluoranthene            | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Benzyl alcohol                  | ug/L  | ND           | 20.0            | 07/10/14 01:01 |            |
| bis(2-Chloroethoxy)methane      | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| bis(2-Chloroethyl) ether        | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| bis(2-Ethylhexyl)phthalate      | ug/L  | ND           | 5.0             | 07/10/14 01:01 |            |
| bis(2chloro1 methylethyl) ether | ug/L  | ND           | 5.0             | 07/10/14 01:01 |            |
| Butylbenzylphthalate            | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Chrysene                        | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Di-n-butylphthalate             | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Di-n-octylphthalate             | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

METHOD BLANK: 1124628

Matrix: Water

Associated Lab Samples: 50100317001, 50100317002, 50100317003, 50100317004, 50100317005, 50100317006, 50100317007, 50100317008, 50100317009, 50100317010, 50100317011, 50100317012, 50100317014

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Dibenzofuran               | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Diethylphthalate           | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Dimethylphthalate          | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Fluoranthene               | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Fluorene                   | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Hexachloro-1,3-butadiene   | ug/L  | ND           | 5.0             | 07/10/14 01:01 |            |
| Hexachlorobenzene          | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Hexachlorocyclopentadiene  | ug/L  | ND           | 20.0            | 07/10/14 01:01 |            |
| Hexachloroethane           | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Indeno(1,2,3-cd)pyrene     | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Isophorone                 | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| N-Nitroso-di-n-propylamine | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| N-Nitrosodiphenylamine     | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Naphthalene                | ug/L  | ND           | 5.0             | 07/10/14 01:01 |            |
| Nitrobenzene               | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Pentachlorophenol          | ug/L  | ND           | 50.0            | 07/10/14 01:01 |            |
| Phenanthrene               | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Phenol                     | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| Pyrene                     | ug/L  | ND           | 10.0            | 07/10/14 01:01 |            |
| 2,4,6-Tribromophenol (S)   | %     | 98           | 31-161          | 07/10/14 01:01 |            |
| 2-Fluorobiphenyl (S)       | %     | 91           | 31-118          | 07/10/14 01:01 |            |
| 2-Fluorophenol (S)         | %     | 31           | 10-67           | 07/10/14 01:01 |            |
| Nitrobenzene-d5 (S)        | %     | 89           | 29-126          | 07/10/14 01:01 |            |
| p-Terphenyl-d14 (S)        | %     | 92           | 28-129          | 07/10/14 01:01 |            |
| Phenol-d5 (S)              | %     | 19           | 10-47           | 07/10/14 01:01 |            |

LABORATORY CONTROL SAMPLE: 1124629

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,4-Dinitrotoluene      | ug/L  | 100         | 95.1       | 95        | 36-126       |            |
| 2-Chlorophenol          | ug/L  | 100         | 60.2       | 60        | 40-98        |            |
| 2-Methylnaphthalene     | ug/L  | 100         | 84.0       | 84        | 36-111       |            |
| 4-Chloro-3-methylphenol | ug/L  | 100         | 71.5       | 71        | 43-113       |            |
| 4-Nitrophenol           | ug/L  | 100         | ND         | 24        | 10-42        |            |
| Acenaphthene            | ug/L  | 100         | 91.3       | 91        | 45-119       |            |
| Acenaphthylene          | ug/L  | 100         | 90.0       | 90        | 46-120       |            |
| Anthracene              | ug/L  | 100         | 92.2       | 92        | 50-129       |            |
| Benzo(a)anthracene      | ug/L  | 100         | 78.6       | 79        | 54-126       |            |
| Benzo(a)pyrene          | ug/L  | 100         | 75.8       | 76        | 59-129       |            |
| Benzo(b)fluoranthene    | ug/L  | 100         | 69.1       | 69        | 53-127       |            |
| Benzo(g,h,i)perylene    | ug/L  | 100         | 72.0       | 72        | 53-125       |            |
| Benzo(k)fluoranthene    | ug/L  | 100         | 76.3       | 76        | 54-125       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

LABORATORY CONTROL SAMPLE: 1124629

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Chrysene                   | ug/L  | 100         | 78.6       | 79        | 51-123       |            |
| Dibenz(a,h)anthracene      | ug/L  | 100         | 73.7       | 74        | 52-125       |            |
| Fluoranthene               | ug/L  | 100         | 85.6       | 86        | 51-127       |            |
| Fluorene                   | ug/L  | 100         | 105        | 105       | 46-124       |            |
| Indeno(1,2,3-cd)pyrene     | ug/L  | 100         | 72.6       | 73        | 54-125       |            |
| N-Nitroso-di-n-propylamine | ug/L  | 100         | 91.5       | 91        | 43-120       |            |
| Naphthalene                | ug/L  | 100         | 80.1       | 80        | 39-108       |            |
| Pentachlorophenol          | ug/L  | 100         | 71.9       | 72        | 31-125       |            |
| Phenanthrene               | ug/L  | 100         | 95.6       | 96        | 49-124       |            |
| Phenol                     | ug/L  | 100         | 19.7       | 20        | 10-37        |            |
| Pyrene                     | ug/L  | 100         | 83.8       | 84        | 51-127       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 102       | 31-161       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 88        | 31-118       |            |
| 2-Fluorophenol (S)         | %     |             |            | 30        | 10-67        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 84        | 29-126       |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 77        | 28-129       |            |
| Phenol-d5 (S)              | %     |             |            | 20        | 10-47        |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1124630 1124631

| Parameter                  | 50100317009 |        | MS          | MSD         | 1124630 |        | MS     | MSD    | MS     | MSD   | % Rec  | Max | Qual |
|----------------------------|-------------|--------|-------------|-------------|---------|--------|--------|--------|--------|-------|--------|-----|------|
|                            | Units       | Result | Spike Conc. | Spike Conc. | Result  | Result | Result | Result | % Rec  | % Rec | Limits | RPD |      |
| 2,4-Dinitrotoluene         | ug/L        | ND     | 200         | 200         | 195     | 190    | 98     | 95     | 34-124 | 3     | 20     |     |      |
| 2-Chlorophenol             | ug/L        | ND     | 200         | 200         | 155     | 144    | 78     | 72     | 34-106 | 8     | 20     |     |      |
| 2-Methylnaphthalene        | ug/L        | ND     | 200         | 200         | 174     | 159    | 87     | 80     | 31-117 | 9     | 20     |     |      |
| 4-Chloro-3-methylphenol    | ug/L        | ND     | 200         | 200         | 171     | 164    | 85     | 82     | 41-116 | 4     | 20     |     |      |
| 4-Nitrophenol              | ug/L        | ND     | 200         | 200         | ND      | ND     | 44     | 48     | 10-78  |       | 20     |     |      |
| Acenaphthene               | ug/L        | ND     | 200         | 200         | 190     | 176    | 95     | 88     | 37-122 | 8     | 20     |     |      |
| Acenaphthylene             | ug/L        | ND     | 200         | 200         | 189     | 174    | 95     | 87     | 36-125 | 8     | 20     |     |      |
| Anthracene                 | ug/L        | ND     | 200         | 200         | 184     | 178    | 92     | 89     | 42-130 | 3     | 20     |     |      |
| Benzo(a)anthracene         | ug/L        | ND     | 200         | 200         | 165     | 168    | 83     | 84     | 43-127 | 2     | 20     |     |      |
| Benzo(a)pyrene             | ug/L        | ND     | 200         | 200         | 160     | 165    | 80     | 83     | 54-111 | 3     | 20     |     |      |
| Benzo(b)fluoranthene       | ug/L        | ND     | 200         | 200         | 145     | 145    | 72     | 73     | 40-129 | 1     | 20     |     |      |
| Benzo(g,h,i)perylene       | ug/L        | ND     | 200         | 200         | 153     | 157    | 77     | 78     | 40-130 | 2     | 20     |     |      |
| Benzo(k)fluoranthene       | ug/L        | ND     | 200         | 200         | 162     | 173    | 81     | 87     | 45-128 | 7     | 20     |     |      |
| Chrysene                   | ug/L        | ND     | 200         | 200         | 168     | 171    | 84     | 86     | 40-123 | 2     | 20     |     |      |
| Dibenz(a,h)anthracene      | ug/L        | ND     | 200         | 200         | 157     | 163    | 79     | 81     | 40-130 | 3     | 20     |     |      |
| Fluoranthene               | ug/L        | ND     | 200         | 200         | 169     | 167    | 85     | 83     | 40-131 | 2     | 20     |     |      |
| Fluorene                   | ug/L        | ND     | 200         | 200         | 216     | 203    | 108    | 101    | 34-130 | 6     | 20     |     |      |
| Indeno(1,2,3-cd)pyrene     | ug/L        | ND     | 200         | 200         | 154     | 159    | 77     | 79     | 41-130 | 3     | 20     |     |      |
| N-Nitroso-di-n-propylamine | ug/L        | ND     | 200         | 200         | 197     | 179    | 98     | 90     | 40-115 | 9     | 20     |     |      |
| Naphthalene                | ug/L        | ND     | 200         | 200         | 167     | 152    | 84     | 76     | 31-113 | 10    | 20     |     |      |
| Pentachlorophenol          | ug/L        | ND     | 200         | 200         | 165     | 152    | 82     | 76     | 30-128 | 8     | 20     |     |      |
| Phenanthrene               | ug/L        | ND     | 200         | 200         | 194     | 186    | 97     | 93     | 42-126 | 4     | 20     |     |      |
| Phenol                     | ug/L        | ND     | 200         | 200         | 76.0    | 81.1   | 38     | 41     | 10-65  | 6     | 20     |     |      |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

| Parameter                | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1124630 |                      | 1124631               |              | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | Qual |
|--------------------------|-------|--|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|------|
|                          |       | 50100317009<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |              |               |             |              |                 |            |      |
| Pyrene                   | ug/L  | ND   | 200                  | 200                   | 165          | 164          | 83            | 82          | 38-131       | 1               | 20         |      |
| 2,4,6-Tribromophenol (S) | %.    |  |                      |                       |              |              |               | 107         | 99           | 31-161          |            |      |
| 2-Fluorobiphenyl (S)     | %.    |  |                      |                       |              |              |               | 93          | 85           | 31-118          |            |      |
| 2-Fluorophenol (S)       | %.    |  |                      |                       |              |              |               | 51          | 52           | 10-67           |            |      |
| Nitrobenzene-d5 (S)      | %.    |  |                      |                       |              |              |               | 89          | 82           | 29-126          |            |      |
| p-Terphenyl-d14 (S)      | %.    |  |                      |                       |              |              |               | 79          | 85           | 28-129          |            |      |
| Phenol-d5 (S)            | %.    |  |                      |                       |              |              |               | 38          | 41           | 10-47           |            |      |

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

QC Batch: WET/16578

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 50100317014

METHOD BLANK: 1124622

Matrix: Water

Associated Lab Samples: 50100317014

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Total Suspended Solids | mg/L  | ND           | 5.0             | 07/09/14 08:11 |            |

LABORATORY CONTROL SAMPLE: 1124625

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Suspended Solids | mg/L  | 100         | 91         | 91        | 80-120       |            |

SAMPLE DUPLICATE: 1124623

| Parameter              | Units | 50100305005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Suspended Solids | mg/L  | ND                 | 4J         |     | 10      |            |

SAMPLE DUPLICATE: 1124624

| Parameter              | Units | 50100312002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Suspended Solids | mg/L  | 43                 | 42         | 2   | 10      |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Sibley - Accucast

Pace Project No.: 50100317

QC Batch: WET/16526

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B cBOD, 5 day

Associated Lab Samples: 50100317014

METHOD BLANK: 1122818

Matrix: Water

Associated Lab Samples: 50100317014

| Parameter               | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------------|-------|--------------|-----------------|----------------|------------|
| Carbonaceous BOD, 5 day | mg/L  | ND           | 2.0             | 07/08/14 11:21 | N2         |

LABORATORY CONTROL SAMPLE: 1122820

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| Carbonaceous BOD, 5 day | mg/L  | 198         | 147        | 74        | 85-115       | B4,N2      |

SAMPLE DUPLICATE: 1123012

| Parameter               | Units | 50100317014 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-------------------------|-------|--------------------|------------|-----|---------|------------|
| Carbonaceous BOD, 5 day | mg/L  | 6.5                | 4.8        | 30  | 20      | B2,N2,R1   |

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## QUALIFIERS

Project: Sibley - Accucast

Pace Project No.: 50100317

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B2 Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.

B4 The glucose/glutamic acid standard exceeded the range of 198 plus or minus 30.5 mg/L.

CU The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

N2 The lab does not hold TNI accreditation for this parameter.

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sibley - Accucast

Pace Project No.: 50100317

| Lab ID      | Sample ID   | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|------------|-------------------|------------------|
| 50100317001 | TMW-1       | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317002 | TMW-2       | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317003 | TMW-3       | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317004 | TMW-4       | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317005 | TMW-5       | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317006 | TMW-6       | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317007 | TMW-7       | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317008 | TMW-8       | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317009 | TMW-9       | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317010 | TMW-10      | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317011 | GW-Dupe     | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317012 | GW EQ Blank | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317014 | S-A IDW     | EPA 3010        | MPRP/13728 | EPA 6010          | ICP/16086        |
| 50100317014 | S-A IDW     | EPA 7470        | MERP/5539  | EPA 7470          | MERC/6084        |
| 50100317001 | TMW-1       | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317002 | TMW-2       | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317003 | TMW-3       | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317004 | TMW-4       | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317005 | TMW-5       | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317006 | TMW-6       | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317007 | TMW-7       | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317008 | TMW-8       | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317009 | TMW-9       | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317010 | TMW-10      | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317011 | GW-Dupe     | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317012 | GW EQ Blank | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317014 | S-A IDW     | EPA 3510        | OEXT/36361 | EPA 8270          | MSSV/15691       |
| 50100317001 | TMW-1       | EPA 8260        | MSV/66864  |                   |                  |
| 50100317002 | TMW-2       | EPA 8260        | MSV/66864  |                   |                  |
| 50100317003 | TMW-3       | EPA 8260        | MSV/66975  |                   |                  |
| 50100317004 | TMW-4       | EPA 8260        | MSV/66864  |                   |                  |
| 50100317005 | TMW-5       | EPA 8260        | MSV/66866  |                   |                  |
| 50100317006 | TMW-6       | EPA 8260        | MSV/66866  |                   |                  |
| 50100317007 | TMW-7       | EPA 8260        | MSV/66866  |                   |                  |
| 50100317008 | TMW-8       | EPA 8260        | MSV/66866  |                   |                  |
| 50100317009 | TMW-9       | EPA 8260        | MSV/66866  |                   |                  |
| 50100317010 | TMW-10      | EPA 8260        | MSV/66866  |                   |                  |
| 50100317011 | GW-Dupe     | EPA 8260        | MSV/66866  |                   |                  |
| 50100317012 | GW EQ Blank | EPA 8260        | MSV/66866  |                   |                  |
| 50100317013 | Trip Blank  | EPA 8260        | MSV/66866  |                   |                  |
| 50100317014 | S-A IDW     | EPA 8260        | MSV/66866  |                   |                  |
| 50100317014 | S-A IDW     | SM 2540D        | WET/16578  |                   |                  |
| 50100317014 | S-A IDW     | SM 5210B        | WET/16526  | SM 5210B          | WET/16562        |

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2  
 1803902

VMS

|   |  |   |  |   |  |
|---|--|---|--|---|--|
| <b>Section A</b><br>Required Client Information:<br>Company: <u>Wesley Boss Construction</u><br>Address: <u>7121 Grape Road</u><br><u>Grenger, IN 46530</u><br>Email: <u>SBStamford@weaverboss.com</u><br>Phone: <u>578-271-3197</u><br>Requested Due Date/TAT: _____ |  | <b>Section B</b><br>Required Project Information:<br>Report To: <u>Steve Semford</u><br>Copy To: <u>ahwang@weaverboss.com</u><br>Purchase Order No.: _____<br>Project Name: <u>Sibley - Accucast</u><br>Project Number: <u>2339-356-03-00</u> |  | <b>Section C</b><br>Invoice Information:<br>Attention: <u>Lyk Cable</u><br>Company Name: <u>Pace Analytical</u><br>Address: <u>7726 Miller Rd</u><br>Pace Quote Reference: _____<br>Pace Project Manager: <u>Lyk Cable</u><br>Pace Profile #: _____ |  |
| Regulatory Agency: _____<br><input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER                                 |  | Site Location: <u>IN</u><br>STATE: _____  |  |   |  |

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX CODE | COLLECTED       |                    | SAMPLE TYPE (G-RAB C-COMP) | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS   | Preservatives                               | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|--|-----------------------------|-----------------|--------------------|----------------------------|---------------------------|---|---|---------------|-----------------------------------|-------------------------|----------------------------|
|        |  |                             | COMPOSITE START | COMPOSITE END/GRAB |                            |                           |   |   |               |                                   |                         |                            |
| 1      | TMW-1                                    | WT                          | 7/2             | 15:25              | WT                         | 7                         | H <sub>2</sub> SO <sub>4</sub><br>HNO <sub>3</sub><br>HCl<br>NaOH<br>Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>Methanol<br>Other | VOCs<br>PCAs & Metals<br>Hex Cr (see notes) |               |                                   |                         | 100                        |
| 2      | TMW-2                                    | WT                          | 7/2             | 16:20              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 3      | TMW-3                                    | WT                          | 7/2             | 17:30              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 4      | TMW-4                                    | WT                          | 7/2             | 12:55              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 5      | TMW-5                                    | WT                          | 7/2             | 14:00              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 6      | TMW-6                                    | WT                          | 7/2             | 13:30              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 7      | TMW-7                                    | WT                          | 7/2             | 12:30              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 8      | TMW-8                                    | WT                          | 7/2             | 14:50              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 9      | TMW-9                                    | WT                          | 7/2             | 11:05              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 10     | TMW-10                                   | WT                          | 7/2             | 10:20              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 11     | TMW-9 MS                                 | WT                          | 7/2             | 11:35              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |
| 12     | TMW-9 MSP                                | WT                          | 7/2             | 11:35              | WT                         | 7                         |   |   |               |                                   |                         | 100                        |

| ADDITIONAL COMMENTS                 | RELINQUISHED BY / AFFILIATION |       | ACCEPTED BY / AFFILIATION |      | SAMPLE CONDITIONS |         |               |
|-------------------------------------|-------------------------------|-------|---------------------------|------|-------------------|---------|---------------|
|                                     | DATE                          | TIME  | DATE                      | TIME | Received on       | Temp In | Sealed Cooler |
| Please HOLD Hex Cr                  | 7/2                           | 17:15 | 7-3-14                    | 0915 | 4.6%              | 4.6%    | Y             |
| Sampler until Steve                 |                               |       |                           |      | 1.9%              | 1.9%    | Y             |
| Semford picks the sites to analyze. |                               |       |                           |      | 1.0%              | 1.0%    | Y             |
|                                     |                               |       |                           |      | 2.3%              | 2.3%    | Y             |
|                                     |                               |       |                           |      | 2.8%              | 2.8%    | Y             |

**ORIGINAL**

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Alex Hwang  
 SIGNATURE OF SAMPLER: Alex Hwang

DATE Signed (MM/DD/YY): 07/02/14

Samples Intact (Y/N) \_\_\_\_\_  
 Sealed Cooler (Y/N) \_\_\_\_\_  
 Received on (Y/N) \_\_\_\_\_



**Sample Condition Upon Receipt**



Client Name: Weaver Boos Project # 50003A

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: 805551445163

Custody Seal on Cooler/Box Present:  yes  no      Seals intact:  yes  no

Date/Time 5035A kits placed in freezer

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used 1 2 3 4 6 A B C D E      Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Cooler Temperature 4.6, 1.9, 1.0, 2.3, 2.8      Ice Visible in Sample Containers:  yes  no

Temp should be above freezing to 6°C

Comments: Date and initials of person examining contents: CP 7-3-14

|   |  |  |
|---|--|--|
| Chain of Custody Present:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 1.                                       |
| Chain of Custody Filled Out:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 2.                                       |
| Chain of Custody Relinquished:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 3.                                       |
| Sampler Name & Signature on COC:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 4.                                       |
| Short Hold Time Analysis (<72hr):   | <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <sup>CP 7-3-14</sup> | 5. <u>CBOD</u>                           |
| Rush Turn Around Time Requested:  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A                                 | 6.                                       |
| Containers Intact:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 7.                                       |
| Sample Labels match COC:<br>-Includes date/time/ID/Analysis   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 8.                                       |
| All containers needing acid/base pres. have been checked?<br>exceptions: VOA, coliform, TOC, O&G                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 9. (Circle) HNO3    H2SO4    NaOH    HCl |
| All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted. |  |  |
| Headspace in VOA Vials (>6mm):  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 10. <u>1 TMW-6</u>                       |
| Trip Blank Present:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 11.                                      |
| Trip Blank Custody Seals Present  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 |  |
| Project Manager Review  |  |  |
| Samples Arrived within Hold Time:   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 12.                                      |
| Sufficient Volume:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 13.                                      |
| Correct Containers Used:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                 | 14.                                      |

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N  
 Person Contacted: Steve Stanford      Date/Time: 14:17 7-3-14  
 Comments/ Resolution: \_\_\_\_\_

Sb, Co, As, Fe, Cr, Pb, Se, Tl not RCR.

Project Manager Review: [Signature]      Date: 7-3-14

Sample Container Count



CLIENT: Weaver Boos  
 COC PAGE 1 of 2  
 COC ID# 1803902

Project # 5000519

| Sample Line Item | DG9H | AG1U | WG9U | AG0U | R | 4/6 | BP2N | BP2U | BP2S | BP3N | BP3U | BP3S | AG3S | AG1H | BP3C | BP1U | SPST | pH <2 | pH >12 | Comments |  |
|------------------|------|------|------|------|---|-----|------|------|------|------|------|------|------|------|------|------|------|-------|--------|----------|--|
| 1                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 2                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 3                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 4                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 5                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 6                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 7                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 8                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 9                |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 10               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 11               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 12               |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |

| Container Codes | DG9H                         | AG1U | WG9U                            | AG0U | R                            | 4/6 | BP2N | BP2U | BP2S | BP3N | BP3U | BP3S | AG3S | AG1H | BP3C | BP1U | SPST | pH <2 | pH >12 | Comments |                             |
|-----------------|------------------------------|------|---------------------------------|------|------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|-------|--------|----------|-----------------------------|
| DG9H            | 40mL HCL amber vial          | AG0U | 100mL unpreserved amber g       | BP1N | 1 liter HNO3 plastic         |     |      |      |      |      |      |      |      |      |      |      |      |       |        | DG9P     | 40mL TSP amber vial         |
| AG1U            | 1liter unpreserved amber gla | AG1H | 1 liter HCL amber glass         | BP1S | 1 liter H2SO4 plastic        |     |      |      |      |      |      |      |      |      |      |      |      |       |        | DG9S     | 40mL H2SO4 amber vial       |
| WG9U            | 4oz clear soil jar           | AG1S | 1 liter H2SO4 amber glass       | BP1U | 1 liter unpreserved plastic  |     |      |      |      |      |      |      |      |      |      |      |      |       |        | DG9T     | 40mL Na Thio amber vial     |
| R               | terra core kit               | AG1T | 1 liter Na Thiosulfate amber g  | BP1Z | 1 liter NaOH, Zn, Ac         |     |      |      |      |      |      |      |      |      |      |      |      |       |        | DG9U     | 40mL unpreserved amber vial |
| BP2N            | 500mL HNO3 plastic           | AG2N | 500mL HNO3 amber glass          | BP2A | 500mL NaOH, Asc Acid plastic |     |      |      |      |      |      |      |      |      |      |      |      |       |        | I        | Wipe/Swab                   |
| BP2U            | 500mL unpreserved plastic    | AG2S | 500mL H2SO4 amber glass         | BP2O | 500mL NaOH plastic           |     |      |      |      |      |      |      |      |      |      |      |      |       |        | JGFU     | 4oz unpreserved amber wide  |
| BP2S            | 500mL H2SO4 plastic          | AG2U | 500mL unpreserved amber g       | BP2Z | 500mL NaOH, Zn Ac            |     |      |      |      |      |      |      |      |      |      |      |      |       |        | U        | Summa Can                   |
| BP3N            | 250mL HNO3 plastic           | AG3U | 250mL unpreserved amber g       | AF   | Air Filter                   |     |      |      |      |      |      |      |      |      |      |      |      |       |        | VG9H     | 40mL HCL clear vial         |
| BP3U            | 250mL unpreserved plastic    | BG1H | 1 liter HCL clear glass         | BP3C | 250mL NaOH plastic           |     |      |      |      |      |      |      |      |      |      |      |      |       |        | VG9T     | 40mL Na Thio. clear vial    |
| BP3S            | 250mL H2SO4 plastic          | BG1S | 1 liter H2SO4 clear glass       | BP3Z | 250mL NaOH, Zn Ac plastic    |     |      |      |      |      |      |      |      |      |      |      |      |       |        | VG9U     | 40mL unpreserved clear vial |
| AG3S            | 250mL H2SO4 glass amber      | BG1T | 1 liter Na Thiosulfate clear gl | C    | Air Cassettes                |     |      |      |      |      |      |      |      |      |      |      |      |       |        | VSG      | Headspace septa vial & HCL  |
| AG1S            | 1 liter H2SO4 amber glass    | BG1U | 1 liter unpreserved glass       | DG9B | 40mL Na Bisulfate amber vial |     |      |      |      |      |      |      |      |      |      |      |      |       |        | WGFY     | 4oz wide jar w/hexane wipe  |
| BP1U            | 1 liter unpreserved plastic  | BP1A | 1 liter NaOH, Asc Acid plastic  | DG9M | 40mL MeOH clear vial         |     |      |      |      |      |      |      |      |      |      |      |      |       |        | ZPLC     | Ziploc Bag                  |



Sample Container Count

CLIENT: Weaver Boos

COC PAGE 2 of 2  
COC ID# 1803903

Project # S0140517



Sample Line

| Item | DG9H | AG1U | WGFU | AG0U | R | 4/6 | BP2N | BP2U | BP2S | BP3N | BP3U | BP3S | AG3S | AG1H | BP3C | BP1U | SPST | pH <2 | pH >12 | Comments |  |
|------|------|------|------|------|---|-----|------|------|------|------|------|------|------|------|------|------|------|-------|--------|----------|--|
| 1    |      |      | 3    |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 2    |      |      | 3    |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 3    |      |      | 3    |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 4    |      |      | 3    |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 5    |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 6    |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 7    |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 8    |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 9    |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 10   |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 11   |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |
| 12   |      |      |      |      |   |     |      |      |      |      |      |      |      |      |      |      |      |       |        |          |  |

Container Codes

|      |                              |      |                                 |      |                              |      |                             |
|------|------------------------------|------|---------------------------------|------|------------------------------|------|-----------------------------|
| DG9H | 40mL HCL amber vial          | AG0U | 100mL unpreserved amber g       | BP1N | 1 liter HNO3 plastic         | DG9P | 40mL TSP amber vial         |
| AG1U | 1liter unpreserved amber gla | AG1H | 1 liter HCL amber glass         | BP1S | 1 liter H2SO4 plastic        | DG9S | 40mL H2SO4 amber vial       |
| WGFU | 4oz clear soil jar           | AG1S | 1 liter H2SO4 amber glass       | BP1U | 1 liter unpreserved plastic  | DG9T | 40mL Na Thio amber vial     |
| R    | terra core kit               | AG1T | 1 liter Na Thiosulfate amber g  | BP1Z | 1 liter NaOH, Zn, Ac         | DG9U | 40mL unpreserved amber vial |
| BP2N | 500mL HNO3 plastic           | AG2N | 500mL HNO3 amber glass          | BP2A | 500mL NaOH, Asc Acid plastic |      | Wipe/Swab                   |
| BP2U | 500mL unpreserved plastic    | AG2S | 500mL H2SO4 amber glass         | BP2O | 500mL NaOH plastic           | JGFU | 4oz unpreserved amber wide  |
| BP2S | 500mL H2SO4 plastic          | AG2U | 500mL unpreserved amber g       | BP2Z | 500mL NaOH, Zn Ac            | U    | Summa Can                   |
| BP3N | 250mL HNO3 plastic           | AG3U | 250mL unpreserved amber g       | AF   | Air Filter                   | VG9H | 40mL HCL clear vial         |
| BP3U | 250mL unpreserved plastic    | BG1H | 1 liter HCL clear glass         | BP3C | 250mL NaOH plastic           | VG9T | 40mL Na Thio. clear vial    |
| BP3S | 250mL H2SO4 plastic          | BG1S | 1 liter H2SO4 clear glass       | BP3Z | 250mL NaOH, Zn Ac plastic    | VG9U | 40mL unpreserved clear vial |
| AG3S | 250mL H2SO4 glass amber      | BG1T | 1 liter Na Thiosulfate clear gl | C    | Air Cassettes                | VSG  | Headspace septa vial & HCL  |
| AG1S | 1 liter H2SO4 amber glass    | BG1U | 1 liter unpreserved glass       | DG9B | 40mL Na Bisulfate amber vial | WGFY | 4oz wide jar w/hexane wipe  |
| BP1U | 1 liter unpreserved plastic  | BP1A | 1 liter NaOH, Asc Acid plastic  | DG9M | 40mL MeOH clear vial         | ZPLC | Ziploc Bag                  |

# **APPENDIX G**

Potential Exposure Concentrations for Surface Soil

|    | A           | B                  | C    | D    | E    | F    | G    | H    | I      | J    | K    | L    |
|----|-------------|--------------------|------|------|------|------|------|------|--------|------|------|------|
| 1  |             |                    | Sb   | D_Sb | Ar   | D_Ar | Co   | D_Co | Fe     | D_Fe | Tl   | D_Tl |
| 2  | P-1 (1-3)   | 6/23/2014 12:35 PM | 7.9  | 1    | 48.4 | 1    | 22.9 | 1    | 253000 | 1    | 1.9  | 1    |
| 3  | P-2 (1-3)   | 6/23/2014 10:10 AM | 0.98 | 0    | 2.1  | 1    | 2    | 1    | 5250   | 1    | 2.5  | 1    |
| 4  | P-3 RE(2-4) | 6/20/2014 8:35 AM  | 1.1  | 0    | 22   | 1    | 4.3  | 1    | 56100  | 1    | 5.4  | 1    |
| 5  | P-3 (8-10)  | 6/19/2014 9:55 AM  | 1    | 0    | 8.9  | 1    | 3.4  | 1    | 18100  | 1    | 2.9  | 1    |
| 6  | P-4 (5-7)   | 6/19/2014 10:56 AM | 1    | 0    | 4    | 1    | 3.7  | 1    | 11500  | 1    | 4.7  | 1    |
| 7  | P-5 (2-4)   | 6/20/2014 10:50 AM | 0.93 | 0    | 2.6  | 1    | 2.3  | 1    | 6780   | 1    | 2.3  | 1    |
| 8  | P-6 (2-4)   | 6/20/2014 9:15 AM  | 0.95 | 0    | 1.9  | 1    | 2.5  | 1    | 5600   | 1    | 2    | 1    |
| 9  | P-7 (5-7)   | 6/19/2014 11:50 AM | 1    | 0    | 3.1  | 1    | 1.7  | 1    | 5660   | 1    | 2.4  | 1    |
| 10 | P-8 RE(0-2) | 6/20/2014 8:45 AM  | 0.95 | 0    | 3.2  | 1    | 1.3  | 1    | 23100  | 1    | 0.95 | 0    |
| 11 | P-8 (6-8)   | 6/19/2014 12:35 PM | 0.98 | 0    | 2.9  | 1    | 2.6  | 1    | 10900  | 1    | 2.2  | 1    |
| 12 | P-9 (2-4)   | 6/19/2014 3:00 PM  | 1.1  | 0    | 4.8  | 1    | 10.6 | 1    | 11500  | 1    | 3.3  | 1    |
| 13 | Surf-Dupe ( | 6/19/2014 8:00 AM  | 1.1  | 0    | 1.9  | 1    | 1.4  | 1    | 3480   | 1    | 2.1  | 1    |
| 14 | P-10 (2-4)  | 6/23/2014 3:35 PM  | 1.1  | 0    | 2    | 1    | 5.3  | 1    | 7180   | 1    | 2.3  | 1    |
| 15 | TMW-1 (1-3) | 6/23/2014 11:45 AM | 0.87 | 0    | 2.3  | 1    | 2.2  | 1    | 10100  | 1    | 1.9  | 1    |
| 16 | TMW-2 (3-5) | 6/23/2014 1:15 PM  | 0.98 | 0    | 1.8  | 1    | 2.3  | 1    | 6730   | 1    | 6.3  | 1    |
| 17 | TMW-3 (8-9) | 6/19/2014 9:00 AM  | 0.96 | 0    | 1.5  | 1    | 0.96 | 0    | 3250   | 1    | 1.3  | 1    |
| 18 | TMW-4 (5-7) | 6/20/2014 11:55 AM | 1    | 0    | 4    | 1    | 2.2  | 1    | 7150   | 1    | 2.3  | 1    |
| 19 | TMW-5 (2-4) | 6/20/2014 12:45 PM | 1.1  | 0    | 2.5  | 1    | 2.7  | 1    | 9120   | 1    | 2.9  | 1    |
| 20 | TMW-6 (2-4) | 6/20/2014 10:00 AM | 1.1  | 0    | 6.3  | 1    | 4.6  | 1    | 32700  | 1    | 2.3  | 1    |
| 21 | TMW-7 (8-1) | 6/19/2014 1:25 PM  | 1.1  | 0    | 1.5  | 1    | 1.4  | 1    | 2770   | 1    | 1.4  | 1    |
| 22 | TMW-8 (1-3) | 6/23/2014 10:40 AM | 1.2  | 1    | 24.2 | 1    | 7.9  | 1    | 90000  | 1    | 3.1  | 1    |
| 23 | TMW-9 (3-5) | 6/19/2014 2:12 PM  | 1    | 0    | 2.3  | 1    | 1.6  | 1    | 4000   | 1    | 1.7  | 1    |
| 24 | TMW-10 (3-  | 6/23/2014 2:45 PM  | 1    | 0    | 4.1  | 1    | 2.8  | 1    | 10300  | 1    | 3.2  | 1    |

|    | A  | B | C                   | D | E      | F | G                                       | H | I   | J | K | L |       |  |  |  |
|----|--|---|---------------------|---|--------|---|---|---|---|---|---|---|-------|--|--|--|
| 1  | <b>UCL Statistics for Uncensored Full Data Sets</b>        |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 2  |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 3  | User Selected Options                                      |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 4  | Date/Time of Computation                                   |   | 8/1/2014 2:28:29 PM |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 5  | From File  |   | WorkSheet.xls       |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 6  | Full Precision   |   | OFF                 |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 7  | Confidence Coefficient                                     |   | 95%                 |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 8  | Number of Bootstrap Operations                             |   | 2000                |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 9  |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 10 |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 11 | <b>Ar</b>  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 12 |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 13 | <b>General Statistics</b>                                  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 14 | Total Number of Observations                               |   |                     |   | 23     |   |   |   | Number of Distinct Observations                     |   |   |   | 19    |  |  |  |
| 15 |  |   |                     |   |        |   |   |   | Number of Missing Observations                      |   |   |   | 0     |  |  |  |
| 16 | Minimum  |   |                     |   | 1.5    |   |   |   | Mean  |   |   |   | 6.883 |  |  |  |
| 17 | Maximum  |   |                     |   | 48.4   |   |   |   | Median  |   |   |   | 2.9   |  |  |  |
| 18 | SD   |   |                     |   | 10.85  |   |   |   | Std. Error of Mean                                  |   |   |   | 2.262 |  |  |  |
| 19 | Coefficient of Variation                                   |   |                     |   | 1.576  |   |   |   | Skewness  |   |   |   | 3.07  |  |  |  |
| 20 |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 21 | <b>Normal GOF Test</b>                                     |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 22 | Shapiro Wilk Test Statistic                                |   |                     |   | 0.524  |   |   |   | <b>Shapiro Wilk GOF Test</b>                        |   |   |   |       |  |  |  |
| 23 | 5% Shapiro Wilk Critical Value                             |   |                     |   | 0.914  |   |   |   | Data Not Normal at 5% Significance Level            |   |   |   |       |  |  |  |
| 24 | Lilliefors Test Statistic                                  |   |                     |   | 0.359  |   |   |   | <b>Lilliefors GOF Test</b>                          |   |   |   |       |  |  |  |
| 25 | 5% Lilliefors Critical Value                               |   |                     |   | 0.185  |   |   |   | Data Not Normal at 5% Significance Level            |   |   |   |       |  |  |  |
| 26 | <b>Data Not Normal at 5% Significance Level</b>            |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 27 |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 28 | <b>Assuming Normal Distribution</b>                        |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 29 | <b>95% Normal UCL</b>                                      |   |                     |   |        |   | <b>95% UCLs (Adjusted for Skewness)</b> |   |   |   |   |   |       |  |  |  |
| 30 | 95% Student's-t UCL  |   |                     |   | 10.77  |   |   |   | 95% Adjusted-CLT UCL (Chen-1995)                    |   |   |   | 12.15 |  |  |  |
| 31 |  |   |                     |   |        |   |   |   | 95% Modified-t UCL (Johnson-1978)                   |   |   |   | 11.01 |  |  |  |
| 32 |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 33 | <b>Gamma GOF Test</b>                                      |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 34 | A-D Test Statistic   |   |                     |   | 2.649  |   |   |   | <b>Anderson-Darling Gamma GOF Test</b>              |   |   |   |       |  |  |  |
| 35 | 5% A-D Critical Value                                      |   |                     |   | 0.77   |   |   |   | Data Not Gamma Distributed at 5% Significance Level |   |   |   |       |  |  |  |
| 36 | K-S Test Statistic   |   |                     |   | 0.289  |   |   |   | <b>Kolmogrov-Smirnov Gamma GOF Test</b>             |   |   |   |       |  |  |  |
| 37 | 5% K-S Critical Value                                      |   |                     |   | 0.187  |   |   |   | Data Not Gamma Distributed at 5% Significance Level |   |   |   |       |  |  |  |
| 38 | <b>Data Not Gamma Distributed at 5% Significance Level</b> |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 39 |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 40 | <b>Gamma Statistics</b>                                    |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 41 | k hat (MLE)  |   |                     |   | 0.991  |   |   |   | k star (bias corrected MLE)                         |   |   |   | 0.89  |  |  |  |
| 42 | Theta hat (MLE)  |   |                     |   | 6.948  |   |   |   | Theta star (bias corrected MLE)                     |   |   |   | 7.73  |  |  |  |
| 43 | nu hat (MLE)   |   |                     |   | 45.57  |   |   |   | nu star (bias corrected)                            |   |   |   | 40.96 |  |  |  |
| 44 | MLE Mean (bias corrected)                                  |   |                     |   | 6.883  |   |   |   | MLE Sd (bias corrected)                             |   |   |   | 7.294 |  |  |  |
| 45 |  |   |                     |   |        |   |   |   | Approximate Chi Square Value (0.05)                 |   |   |   | 27.29 |  |  |  |
| 46 | Adjusted Level of Significance                             |   |                     |   | 0.0389 |   |   |   | Adjusted Chi Square Value                           |   |   |   | 26.48 |  |  |  |
| 47 |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 48 | <b>Assuming Gamma Distribution</b>                         |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |
| 49 | 95% Approximate Gamma UCL (use when n>=50))                |   |                     |   | 10.33  |   |   |   | 95% Adjusted Gamma UCL (use when n<50)              |   |   |   | 10.64 |  |  |  |
| 50 |  |   |                     |   |        |   |   |   |   |   |   |   |       |  |  |  |

|    | A  | B | C | D | E     | F | G   | H | I | J | K     | L |
|----|--|---|---|---|-------|---|---|---|---|---|-------|---|
| 51 | <b>Lognormal GOF Test</b>  |   |   |   |       |   |   |   |   |   |       |   |
| 52 | Shapiro Wilk Test Statistic  |   |   |   | 0.821 |   | <b>Shapiro Wilk Lognormal GOF Test</b>      |   |   |   |       |   |
| 53 | 5% Shapiro Wilk Critical Value   |   |   |   | 0.914 |   | Data Not Lognormal at 5% Significance Level |   |   |   |       |   |
| 54 | Lilliefors Test Statistic  |   |   |   | 0.211 |   | <b>Lilliefors Lognormal GOF Test</b>        |   |   |   |       |   |
| 55 | 5% Lilliefors Critical Value   |   |   |   | 0.185 |   | Data Not Lognormal at 5% Significance Level |   |   |   |       |   |
| 56 | <b>Data Not Lognormal at 5% Significance Level</b>   |   |   |   |       |   |   |   |   |   |       |   |
| 57 |  |   |   |   |       |   |   |   |   |   |       |   |
| 58 | <b>Lognormal Statistics</b>  |   |   |   |       |   |   |   |   |   |       |   |
| 59 | Minimum of Logged Data   |   |   |   | 0.405 |   | Mean of logged Data                         |   |   |   | 1.346 |   |
| 60 | Maximum of Logged Data   |   |   |   | 3.879 |   | SD of logged Data                           |   |   |   | 0.929 |   |
| 61 |  |   |   |   |       |   |   |   |   |   |       |   |
| 62 | <b>Assuming Lognormal Distribution</b>   |   |   |   |       |   |   |   |   |   |       |   |
| 63 | 95% H-UCL  |   |   |   | 9.586 |   | 90% Chebyshev (MVUE) UCL                    |   |   |   | 9.509 |   |
| 64 | 95% Chebyshev (MVUE) UCL   |   |   |   | 11.2  |   | 97.5% Chebyshev (MVUE) UCL                  |   |   |   | 13.56 |   |
| 65 | 99% Chebyshev (MVUE) UCL   |   |   |   | 18.18 |   |   |   |   |   |       |   |
| 66 |  |   |   |   |       |   |   |   |   |   |       |   |
| 67 | <b>Nonparametric Distribution Free UCL Statistics</b>  |   |   |   |       |   |   |   |   |   |       |   |
| 68 | <b>Data do not follow a Discernible Distribution (0.05)</b>  |   |   |   |       |   |   |   |   |   |       |   |
| 69 |  |   |   |   |       |   |   |   |   |   |       |   |
| 70 | <b>Nonparametric Distribution Free UCLs</b>  |   |   |   |       |   |   |   |   |   |       |   |
| 71 | 95% CLT UCL  |   |   |   | 10.6  |   | 95% Jackknife UCL                           |   |   |   | 10.77 |   |
| 72 | 95% Standard Bootstrap UCL   |   |   |   | 10.64 |   | 95% Bootstrap-t UCL                         |   |   |   | 15.1  |   |
| 73 | 95% Hall's Bootstrap UCL   |   |   |   | 12.06 |   | 95% Percentile Bootstrap UCL                |   |   |   | 11.03 |   |
| 74 | 95% BCA Bootstrap UCL  |   |   |   | 12.62 |   |   |   |   |   |       |   |
| 75 | 90% Chebyshev(Mean, Sd) UCL  |   |   |   | 13.67 |   | 95% Chebyshev(Mean, Sd) UCL                 |   |   |   | 16.74 |   |
| 76 | 97.5% Chebyshev(Mean, Sd) UCL  |   |   |   | 21.01 |   | 99% Chebyshev(Mean, Sd) UCL                 |   |   |   | 29.39 |   |
| 77 |  |   |   |   |       |   |   |   |   |   |       |   |
| 78 | <b>Suggested UCL to Use</b>  |   |   |   |       |   |   |   |   |   |       |   |
| 79 | 95% Chebyshev (Mean, Sd) UCL   |   |   |   | 16.74 |   |   |   |   |   |       |   |
| 80 |  |   |   |   |       |   |   |   |   |   |       |   |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. |   |   |   |       |   |   |   |   |   |       |   |
| 82 | These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)       |   |   |   |       |   |   |   |   |   |       |   |
| 83 | and Singh and Singh (2003). However, simulation results will not cover all Real World data sets.                             |   |   |   |       |   |   |   |   |   |       |   |
| 84 | For additional insight the user may want to consult a statistician.  |   |   |   |       |   |   |   |   |   |       |   |
| 85 |  |   |   |   |       |   |   |   |   |   |       |   |
| 86 |  |   |   |   |       |   |   |   |   |   |       |   |

|     | A  | B | C | D | E      | F | G   | H | I | J | K     | L |
|-----|--|---|---|---|--------|---|---|---|---|---|-------|---|
| 87  | <b>Fe</b>  |   |   |   |        |   |   |   |   |   |       |   |
| 88  |  |   |   |   |        |   |   |   |   |   |       |   |
| 89  | <b>General Statistics</b>                                  |   |   |   |        |   |   |   |   |   |       |   |
| 90  | Total Number of Observations                               |   |   |   | 23     |   | Number of Distinct Observations                     |   |   |   | 22    |   |
| 91  |  |   |   |   |        |   | Number of Missing Observations                      |   |   |   | 0     |   |
| 92  | Minimum  |   |   |   | 2770   |   | Mean  |   |   |   | 25838 |   |
| 93  | Maximum  |   |   |   | 253000 |   | Median  |   |   |   | 9120  |   |
| 94  | SD   |   |   |   | 53444  |   | Std. Error of Mean                                  |   |   |   | 11144 |   |
| 95  | Coefficient of Variation                                   |   |   |   | 2.068  |   | Skewness  |   |   |   | 3.879 |   |
| 96  |  |   |   |   |        |   |   |   |   |   |       |   |
| 97  | <b>Normal GOF Test</b>                                     |   |   |   |        |   |   |   |   |   |       |   |
| 98  | Shapiro Wilk Test Statistic                                |   |   |   | 0.444  |   | <b>Shapiro Wilk GOF Test</b>                        |   |   |   |       |   |
| 99  | 5% Shapiro Wilk Critical Value                             |   |   |   | 0.914  |   | Data Not Normal at 5% Significance Level            |   |   |   |       |   |
| 100 | Lilliefors Test Statistic                                  |   |   |   | 0.347  |   | <b>Lilliefors GOF Test</b>                          |   |   |   |       |   |
| 101 | 5% Lilliefors Critical Value                               |   |   |   | 0.185  |   | Data Not Normal at 5% Significance Level            |   |   |   |       |   |
| 102 | <b>Data Not Normal at 5% Significance Level</b>            |   |   |   |        |   |   |   |   |   |       |   |
| 103 |  |   |   |   |        |   |   |   |   |   |       |   |
| 104 | <b>Assuming Normal Distribution</b>                        |   |   |   |        |   |   |   |   |   |       |   |
| 105 | <b>95% Normal UCL</b>                                      |   |   |   |        |   | <b>95% UCLs (Adjusted for Skewness)</b>             |   |   |   |       |   |
| 106 | 95% Student's-t UCL  |   |   |   | 44973  |   | 95% Adjusted-CLT UCL (Chen-1995)                    |   |   |   | 53799 |   |
| 107 |  |   |   |   |        |   | 95% Modified-t UCL (Johnson-1978)                   |   |   |   | 46476 |   |
| 108 |  |   |   |   |        |   |   |   |   |   |       |   |
| 109 | <b>Gamma GOF Test</b>                                      |   |   |   |        |   |   |   |   |   |       |   |
| 110 | A-D Test Statistic   |   |   |   | 2.328  |   | <b>Anderson-Darling Gamma GOF Test</b>              |   |   |   |       |   |
| 111 | 5% A-D Critical Value                                      |   |   |   | 0.785  |   | Data Not Gamma Distributed at 5% Significance Level |   |   |   |       |   |
| 112 | K-S Test Statistic   |   |   |   | 0.314  |   | <b>Kolmogrov-Smirnov Gamma GOF Test</b>             |   |   |   |       |   |
| 113 | 5% K-S Critical Value                                      |   |   |   | 0.189  |   | Data Not Gamma Distributed at 5% Significance Level |   |   |   |       |   |
| 114 | <b>Data Not Gamma Distributed at 5% Significance Level</b> |   |   |   |        |   |   |   |   |   |       |   |
| 115 |  |   |   |   |        |   |   |   |   |   |       |   |
| 116 | <b>Gamma Statistics</b>                                    |   |   |   |        |   |   |   |   |   |       |   |
| 117 | k hat (MLE)  |   |   |   | 0.715  |   | k star (bias corrected MLE)                         |   |   |   | 0.651 |   |
| 118 | Theta hat (MLE)  |   |   |   | 36125  |   | Theta star (bias corrected MLE)                     |   |   |   | 39694 |   |
| 119 | nu hat (MLE)   |   |   |   | 32.9   |   | nu star (bias corrected)                            |   |   |   | 29.94 |   |
| 120 | MLE Mean (bias corrected)                                  |   |   |   | 25838  |   | MLE Sd (bias corrected)                             |   |   |   | 32025 |   |
| 121 |  |   |   |   |        |   | Approximate Chi Square Value (0.05)                 |   |   |   | 18.45 |   |
| 122 | Adjusted Level of Significance                             |   |   |   | 0.0389 |   | Adjusted Chi Square Value                           |   |   |   | 17.79 |   |
| 123 |  |   |   |   |        |   |   |   |   |   |       |   |
| 124 | <b>Assuming Gamma Distribution</b>                         |   |   |   |        |   |   |   |   |   |       |   |
| 125 | 95% Approximate Gamma UCL (use when n>=50))                |   |   |   | 41938  |   | 95% Adjusted Gamma UCL (use when n<50)              |   |   |   | 43479 |   |
| 126 |  |   |   |   |        |   |   |   |   |   |       |   |
| 127 | <b>Lognormal GOF Test</b>                                  |   |   |   |        |   |   |   |   |   |       |   |
| 128 | Shapiro Wilk Test Statistic                                |   |   |   | 0.884  |   | <b>Shapiro Wilk Lognormal GOF Test</b>              |   |   |   |       |   |
| 129 | 5% Shapiro Wilk Critical Value                             |   |   |   | 0.914  |   | Data Not Lognormal at 5% Significance Level         |   |   |   |       |   |
| 130 | Lilliefors Test Statistic                                  |   |   |   | 0.227  |   | <b>Lilliefors Lognormal GOF Test</b>                |   |   |   |       |   |
| 131 | 5% Lilliefors Critical Value                               |   |   |   | 0.185  |   | Data Not Lognormal at 5% Significance Level         |   |   |   |       |   |
| 132 | <b>Data Not Lognormal at 5% Significance Level</b>         |   |   |   |        |   |   |   |   |   |       |   |
| 133 |  |   |   |   |        |   |   |   |   |   |       |   |
| 134 | <b>Lognormal Statistics</b>                                |   |   |   |        |   |   |   |   |   |       |   |
| 135 | Minimum of Logged Data                                     |   |   |   | 7.927  |   | Mean of logged Data                                 |   |   |   | 9.317 |   |
| 136 | Maximum of Logged Data                                     |   |   |   | 12.44  |   | SD of logged Data                                   |   |   |   | 1.107 |   |
| 137 |  |   |   |   |        |   |   |   |   |   |       |   |
| 138 | <b>Assuming Lognormal Distribution</b>                     |   |   |   |        |   |   |   |   |   |       |   |
| 139 | 95% H-UCL  |   |   |   | 38558  |   | 90% Chebyshev (MVUE) UCL                            |   |   |   | 35451 |   |
| 140 | 95% Chebyshev (MVUE) UCL                                   |   |   |   | 42573  |   | 97.5% Chebyshev (MVUE) UCL                          |   |   |   | 52459 |   |
| 141 | 99% Chebyshev (MVUE) UCL                                   |   |   |   | 71878  |   |   |   |   |   |       |   |

|     | A  | B | C | D | E      | F | G                            | H | I | J | K      | L |
|-----|--|---|---|---|--------|---|------------------------------|---|---|---|--------|---|
| 142 | <b>Nonparametric Distribution Free UCL Statistics</b>  |   |   |   |        |   |                              |   |   |   |        |   |
| 143 | <b>Data do not follow a Discernible Distribution (0.05)</b>  |   |   |   |        |   |                              |   |   |   |        |   |
| 144 | <b>Nonparametric Distribution Free UCLs</b>  |   |   |   |        |   |                              |   |   |   |        |   |
| 145 | <b>Nonparametric Distribution Free UCLs</b>  |   |   |   |        |   |                              |   |   |   |        |   |
| 146 | <b>Nonparametric Distribution Free UCLs</b>  |   |   |   |        |   |                              |   |   |   |        |   |
| 147 | 95% CLT UCL  |   |   |   | 44168  |   | 95% Jackknife UCL            |   |   |   | 44973  |   |
| 148 | 95% Standard Bootstrap UCL   |   |   |   | 43723  |   | 95% Bootstrap-t UCL          |   |   |   | 95696  |   |
| 149 | 95% Hall's Bootstrap UCL   |   |   |   | 108689 |   | 95% Percentile Bootstrap UCL |   |   |   | 44920  |   |
| 150 | 95% BCA Bootstrap UCL  |   |   |   | 54231  |   |                              |   |   |   |        |   |
| 151 | 90% Chebyshev(Mean, Sd) UCL  |   |   |   | 59269  |   | 95% Chebyshev(Mean, Sd) UCL  |   |   |   | 74413  |   |
| 152 | 97.5% Chebyshev(Mean, Sd) UCL  |   |   |   | 95431  |   | 99% Chebyshev(Mean, Sd) UCL  |   |   |   | 136718 |   |
| 153 | <b>Suggested UCL to Use</b>  |   |   |   |        |   |                              |   |   |   |        |   |
| 154 | <b>Suggested UCL to Use</b>  |   |   |   |        |   |                              |   |   |   |        |   |
| 155 | 95% Chebyshev (Mean, Sd) UCL   |   |   |   | 74413  |   |                              |   |   |   |        |   |
| 156 |  |   |   |   |        |   |                              |   |   |   |        |   |
| 157 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. |   |   |   |        |   |                              |   |   |   |        |   |
| 158 | These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)       |   |   |   |        |   |                              |   |   |   |        |   |
| 159 | and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.                            |   |   |   |        |   |                              |   |   |   |        |   |
| 160 | For additional insight the user may want to consult a statistician.  |   |   |   |        |   |                              |   |   |   |        |   |
| 161 |  |   |   |   |        |   |                              |   |   |   |        |   |

|    | A   | B | C                   | D | E     | F | G | H | I  | J | K | L |        |  |  |  |
|----|---|---|---------------------|---|-------|---|---|---|--|---|---|---|--------|--|--|--|
| 1  | <b>UCL Statistics for Data Sets with Non-Detects</b>  |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 2  |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 3  | User Selected Options   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 4  | Date/Time of Computation  |   | 8/1/2014 2:26:48 PM |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 5  | From File   |   | WorkSheet.xls       |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 6  | Full Precision  |   | OFF                 |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 7  | Confidence Coefficient  |   | 95%                 |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 8  | Number of Bootstrap Operations  |   | 2000                |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 9  |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 10 | <b>Sb</b>   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 11 |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 12 | <b>General Statistics</b>   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 13 | Total Number of Observations  |   |                     |   | 23    |   |   |   | Number of Distinct Observations                |   |   |   | 9      |  |  |  |
| 14 | Number of Detects   |   |                     |   | 2     |   |   |   | Number of Non-Detects                          |   |   |   | 21     |  |  |  |
| 15 | Number of Distinct Detects  |   |                     |   | 2     |   |   |   | Number of Distinct Non-Detects                 |   |   |   | 7      |  |  |  |
| 16 | Minimum Detect  |   |                     |   | 1.2   |   |   |   | Minimum Non-Detect                             |   |   |   | 0.87   |  |  |  |
| 17 | Maximum Detect  |   |                     |   | 7.9   |   |   |   | Maximum Non-Detect                             |   |   |   | 1.1    |  |  |  |
| 18 | Variance Detects  |   |                     |   | 22.45 |   |   |   | Percent Non-Detects                            |   |   |   | 91.3%  |  |  |  |
| 19 | Mean Detects  |   |                     |   | 4.55  |   |   |   | SD Detects                                     |   |   |   | 4.738  |  |  |  |
| 20 | Median Detects  |   |                     |   | 4.55  |   |   |   | CV Detects                                     |   |   |   | 1.041  |  |  |  |
| 21 | Skewness Detects  |   |                     |   | N/A   |   |   |   | Kurtosis Detects                               |   |   |   | N/A    |  |  |  |
| 22 | Mean of Logged Detects  |   |                     |   | 1.125 |   |   |   | SD of Logged Detects                           |   |   |   | 1.333  |  |  |  |
| 23 |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 24 | <b>Warning: Data set has only 2 Detected Values.</b>  |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 25 | <b>This is not enough to compute meaningful or reliable statistics and estimates.</b>         |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 26 |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 27 |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 28 | <b>Normal GOF Test on Detects Only</b>  |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 29 | <b>Not Enough Data to Perform GOF Test</b>  |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 30 |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 31 | <b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b> |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 32 | Mean  |   |                     |   | 1.19  |   |   |   | Standard Error of Mean                         |   |   |   | 0.422  |  |  |  |
| 33 | SD  |   |                     |   | 1.432 |   |   |   | 95% KM (BCA) UCL                               |   |   |   | N/A    |  |  |  |
| 34 | 95% KM (t) UCL  |   |                     |   | 1.915 |   |   |   | 95% KM (Percentile Bootstrap) UCL              |   |   |   | N/A    |  |  |  |
| 35 | 95% KM (z) UCL  |   |                     |   | 1.885 |   |   |   | 95% KM Bootstrap t UCL                         |   |   |   | N/A    |  |  |  |
| 36 | 90% KM Chebyshev UCL  |   |                     |   | 2.457 |   |   |   | 95% KM Chebyshev UCL                           |   |   |   | 3.031  |  |  |  |
| 37 | 97.5% KM Chebyshev UCL  |   |                     |   | 3.827 |   |   |   | 99% KM Chebyshev UCL                           |   |   |   | 5.392  |  |  |  |
| 38 |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 39 | <b>Gamma GOF Tests on Detected Observations Only</b>  |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 40 | <b>Not Enough Data to Perform GOF Test</b>  |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 41 |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 42 | <b>Gamma Statistics on Detected Data Only</b>   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 43 | k hat (MLE)   |   |                     |   | 1.424 |   |   |   | k star (bias corrected MLE)                    |   |   |   | N/A    |  |  |  |
| 44 | Theta hat (MLE)   |   |                     |   | 3.195 |   |   |   | Theta star (bias corrected MLE)                |   |   |   | N/A    |  |  |  |
| 45 | nu hat (MLE)  |   |                     |   | 5.696 |   |   |   | nu star (bias corrected)                       |   |   |   | N/A    |  |  |  |
| 46 | MLE Mean (bias corrected)   |   |                     |   | N/A   |   |   |   | MLE Sd (bias corrected)                        |   |   |   | N/A    |  |  |  |
| 47 |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 48 | <b>Gamma Kaplan-Meier (KM) Statistics</b>   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 49 | k hat (KM)  |   |                     |   | 0.69  |   |   |   | nu hat (KM)                                    |   |   |   | 31.76  |  |  |  |
| 50 |   |   |                     |   |       |   |   |   | Adjusted Level of Significance ( $\beta$ )     |   |   |   | 0.0389 |  |  |  |
| 51 | Approximate Chi Square Value (31.76, $\alpha$ )   |   |                     |   | 19.88 |   |   |   | Adjusted Chi Square Value (31.76, $\beta$ )    |   |   |   | 19.2   |  |  |  |
| 52 | 95% Gamma Approximate KM-UCL (use when $n \geq 50$ )  |   |                     |   | 1.901 |   |   |   | 95% Gamma Adjusted KM-UCL (use when $n < 50$ ) |   |   |   | 1.968  |  |  |  |
| 53 |   |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 54 | <b>Lognormal GOF Test on Detected Observations Only</b>                                       |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |
| 55 | <b>Not Enough Data to Perform GOF Test</b>  |   |                     |   |       |   |   |   |  |   |   |   |        |  |  |  |



|    | A   | B | C | D | E     | F | G                            | H | I | J | K      | L |
|----|---|---|---|---|-------|---|------------------------------|---|---|---|--------|---|
| 56 |   |   |   |   |       |   |                              |   |   |   |        |   |
| 57 | <b>Lognormal ROS Statistics Using Imputed Non-Detects</b>   |   |   |   |       |   |                              |   |   |   |        |   |
| 58 | Mean in Original Scale  |   |   |   | 0.397 |   | Mean in Log Scale            |   |   |   | -8.775 |   |
| 59 | SD in Original Scale  |   |   |   | 1.654 |   | SD in Log Scale              |   |   |   | 4.452  |   |
| 60 | 95% t UCL (assumes normality of ROS data)   |   |   |   | 0.99  |   | 95% Percentile Bootstrap UCL |   |   |   | 1.033  |   |
| 61 | 95% BCA Bootstrap UCL   |   |   |   | 1.479 |   | 95% Bootstrap t UCL          |   |   |   | 188.2  |   |
| 62 | 95% H-UCL (Log ROS)   |   |   |   | 8596  |   |                              |   |   |   |        |   |
| 63 |   |   |   |   |       |   |                              |   |   |   |        |   |
| 64 | <b>DL/2 Statistics</b>  |   |   |   |       |   |                              |   |   |   |        |   |
| 65 | <b>DL/2 Normal</b>  |   |   |   |       |   | <b>DL/2 Log-Transformed</b>  |   |   |   |        |   |
| 66 | Mean in Original Scale  |   |   |   | 0.859 |   | Mean in Log Scale            |   |   |   | -0.524 |   |
| 67 | SD in Original Scale  |   |   |   | 1.542 |   | SD in Log Scale              |   |   |   | 0.596  |   |
| 68 | 95% t UCL (Assumes normality)   |   |   |   | 1.411 |   | 95% H-Stat UCL               |   |   |   | 0.919  |   |
| 69 | <b>DL/2 is not a recommended method, provided for comparisons and historical reasons</b>  |   |   |   |       |   |                              |   |   |   |        |   |
| 70 |   |   |   |   |       |   |                              |   |   |   |        |   |
| 71 | <b>Nonparametric Distribution Free UCL Statistics</b>   |   |   |   |       |   |                              |   |   |   |        |   |
| 72 | <b>Data do not follow a Discernible Distribution at 5% Significance Level</b>   |   |   |   |       |   |                              |   |   |   |        |   |
| 73 |   |   |   |   |       |   |                              |   |   |   |        |   |
| 74 | <b>Suggested UCL to Use</b>   |   |   |   |       |   |                              |   |   |   |        |   |
| 75 | 95% KM (BCA) UCL  |   |   |   | N/A   |   |                              |   |   |   |        |   |
| 76 | <b>Warning: One or more Recommended UCL(s) not available!</b>   |   |   |   |       |   |                              |   |   |   |        |   |
| 77 |   |   |   |   |       |   |                              |   |   |   |        |   |
| 78 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.              |   |   |   |       |   |                              |   |   |   |        |   |
| 79 | Recommendations are based upon data size, data distribution, and skewness.  |   |   |   |       |   |                              |   |   |   |        |   |
| 80 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).                  |   |   |   |       |   |                              |   |   |   |        |   |
| 81 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. |   |   |   |       |   |                              |   |   |   |        |   |
| 82 |   |   |   |   |       |   |                              |   |   |   |        |   |

|     | A   | B | C | D | E     | F | G  | H | I | J | K      | L |
|-----|---|---|---|---|-------|---|--|---|---|---|--------|---|
| 83  | <b>Co</b>   |   |   |   |       |   |  |   |   |   |        |   |
| 84  |   |   |   |   |       |   |  |   |   |   |        |   |
| 85  | <b>General Statistics</b>   |   |   |   |       |   |  |   |   |   |        |   |
| 86  | Total Number of Observations  |   |   |   | 23    |   | Number of Distinct Observations                              |   |   |   | 20     |   |
| 87  | Number of Detects   |   |   |   | 22    |   | Number of Non-Detects  |   |   |   | 1      |   |
| 88  | Number of Distinct Detects  |   |   |   | 19    |   | Number of Distinct Non-Detects                               |   |   |   | 1      |   |
| 89  | Minimum Detect  |   |   |   | 1.3   |   | Minimum Non-Detect   |   |   |   | 0.96   |   |
| 90  | Maximum Detect  |   |   |   | 22.9  |   | Maximum Non-Detect   |   |   |   | 0.96   |   |
| 91  | Variance Detects  |   |   |   | 22.54 |   | Percent Non-Detects  |   |   |   | 4.348% |   |
| 92  | Mean Detects  |   |   |   | 4.168 |   | SD Detects   |   |   |   | 4.748  |   |
| 93  | Median Detects  |   |   |   | 2.55  |   | CV Detects   |   |   |   | 1.139  |   |
| 94  | Skewness Detects  |   |   |   | 3.299 |   | Kurtosis Detects   |   |   |   | 12.16  |   |
| 95  | Mean of Logged Detects  |   |   |   | 1.114 |   | SD of Logged Detects   |   |   |   | 0.707  |   |
| 96  |   |   |   |   |       |   |  |   |   |   |        |   |
| 97  | <b>Normal GOF Test on Detects Only</b>  |   |   |   |       |   |  |   |   |   |        |   |
| 98  | Shapiro Wilk Test Statistic   |   |   |   | 0.571 |   | <b>Shapiro Wilk GOF Test</b>                                 |   |   |   |        |   |
| 99  | 5% Shapiro Wilk Critical Value  |   |   |   | 0.911 |   | Detected Data Not Normal at 5% Significance Level            |   |   |   |        |   |
| 100 | Lilliefors Test Statistic   |   |   |   | 0.282 |   | <b>Lilliefors GOF Test</b>                                   |   |   |   |        |   |
| 101 | 5% Lilliefors Critical Value  |   |   |   | 0.189 |   | Detected Data Not Normal at 5% Significance Level            |   |   |   |        |   |
| 102 | <b>Detected Data Not Normal at 5% Significance Level</b>                                      |   |   |   |       |   |  |   |   |   |        |   |
| 103 |   |   |   |   |       |   |  |   |   |   |        |   |
| 104 | <b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b> |   |   |   |       |   |  |   |   |   |        |   |
| 105 | Mean  |   |   |   | 4.029 |   | Standard Error of Mean                                       |   |   |   | 0.978  |   |
| 106 | SD  |   |   |   | 4.584 |   | 95% KM (BCA) UCL   |   |   |   | 5.932  |   |
| 107 | 95% KM (t) UCL  |   |   |   | 5.709 |   | 95% KM (Percentile Bootstrap) UCL                            |   |   |   | 5.874  |   |
| 108 | 95% KM (z) UCL  |   |   |   | 5.638 |   | 95% KM Bootstrap t UCL                                       |   |   |   | 8.274  |   |
| 109 | 90% KM Chebyshev UCL  |   |   |   | 6.964 |   | 95% KM Chebyshev UCL   |   |   |   | 8.293  |   |
| 110 | 97.5% KM Chebyshev UCL  |   |   |   | 10.14 |   | 99% KM Chebyshev UCL   |   |   |   | 13.76  |   |
| 111 |   |   |   |   |       |   |  |   |   |   |        |   |
| 112 | <b>Gamma GOF Tests on Detected Observations Only</b>  |   |   |   |       |   |  |   |   |   |        |   |
| 113 | A-D Test Statistic  |   |   |   | 1.511 |   | <b>Anderson-Darling GOF Test</b>                             |   |   |   |        |   |
| 114 | 5% A-D Critical Value   |   |   |   | 0.757 |   | Detected Data Not Gamma Distributed at 5% Significance Level |   |   |   |        |   |
| 115 | K-S Test Statistic  |   |   |   | 0.228 |   | <b>Kolmogrov-Smirnoff GOF</b>                                |   |   |   |        |   |
| 116 | 5% K-S Critical Value   |   |   |   | 0.188 |   | Detected Data Not Gamma Distributed at 5% Significance Level |   |   |   |        |   |
| 117 | <b>Detected Data Not Gamma Distributed at 5% Significance Level</b>                           |   |   |   |       |   |  |   |   |   |        |   |
| 118 |   |   |   |   |       |   |  |   |   |   |        |   |
| 119 | <b>Gamma Statistics on Detected Data Only</b>   |   |   |   |       |   |  |   |   |   |        |   |
| 120 | k hat (MLE)   |   |   |   | 1.744 |   | k star (bias corrected MLE)                                  |   |   |   | 1.536  |   |
| 121 | Theta hat (MLE)   |   |   |   | 2.391 |   | Theta star (bias corrected MLE)                              |   |   |   | 2.714  |   |
| 122 | nu hat (MLE)  |   |   |   | 76.71 |   | nu star (bias corrected)                                     |   |   |   | 67.59  |   |
| 123 | MLE Mean (bias corrected)   |   |   |   | 4.168 |   | MLE Sd (bias corrected)                                      |   |   |   | 3.363  |   |
| 124 |   |   |   |   |       |   |  |   |   |   |        |   |
| 125 | <b>Gamma Kaplan-Meier (KM) Statistics</b>   |   |   |   |       |   |  |   |   |   |        |   |
| 126 | k hat (KM)  |   |   |   | 0.772 |   | nu hat (KM)  |   |   |   | 35.53  |   |
| 127 | Approximate Chi Square Value (35.53, $\alpha$ )   |   |   |   | 22.89 |   | Adjusted Chi Square Value (35.53, $\beta$ )                  |   |   |   | 22.16  |   |
| 128 | 95% Gamma Approximate KM-UCL (use when $n \geq 50$ )  |   |   |   | 6.253 |   | 95% Gamma Adjusted KM-UCL (use when $n < 50$ )               |   |   |   | 6.461  |   |
| 129 |   |   |   |   |       |   |  |   |   |   |        |   |

|     | A  | B   | C     | D | E | F | G                           | H | I | J   | K      | L |
|-----|--|---|-------|---|---|---|-----------------------------|---|---|---|--------|---|
| 130 | <b>Gamma ROS Statistics using Imputed Non-Detects</b>  |   |       |   |   |   |                             |   |   |   |        |   |
| 131 | GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs                                 |   |       |   |   |   |                             |   |   |   |        |   |
| 132 | GROS may not be used when kstar of detected data is small such as < 0.1  |   |       |   |   |   |                             |   |   |   |        |   |
| 133 | For such situations, GROS method tends to yield inflated values of UCLs and BTVs   |   |       |   |   |   |                             |   |   |   |        |   |
| 134 | For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates                  |   |       |   |   |   |                             |   |   |   |        |   |
| 135 |  | Minimum   | 0.01  |   |   |   |                             |   |   | Mean  | 3.987  |   |
| 136 |  | Maximum   | 22.9  |   |   |   |                             |   |   | Median  | 2.5    |   |
| 137 |  | SD  | 4.719 |   |   |   |                             |   |   | CV  | 1.184  |   |
| 138 |  | k hat (MLE)                                       | 1.103 |   |   |   |                             |   |   | k star (bias corrected MLE)                             | 0.988  |   |
| 139 |  | Theta hat (MLE)                                   | 3.616 |   |   |   |                             |   |   | Theta star (bias corrected MLE)                         | 4.037  |   |
| 140 |  | nu hat (MLE)                                      | 50.72 |   |   |   |                             |   |   | nu star (bias corrected)                                | 45.44  |   |
| 141 |  | MLE Mean (bias corrected)                         | 3.987 |   |   |   |                             |   |   | MLE Sd (bias corrected)                                 | 4.012  |   |
| 142 |  |   |       |   |   |   |                             |   |   | Adjusted Level of Significance ( $\beta$ )              | 0.0389 |   |
| 143 |  | Approximate Chi Square Value (45.44, $\alpha$ )   | 30.97 |   |   |   |                             |   |   | Adjusted Chi Square Value (45.44, $\beta$ )             | 30.11  |   |
| 144 |  | 95% Gamma Approximate UCL (use when $n \geq 50$ ) | 5.849 |   |   |   |                             |   |   | 95% Gamma Adjusted UCL (use when $n < 50$ )             | 6.018  |   |
| 145 |  |   |       |   |   |   |                             |   |   |   |        |   |
| 146 | <b>Lognormal GOF Test on Detected Observations Only</b>  |   |       |   |   |   |                             |   |   |   |        |   |
| 147 |  | Shapiro Wilk Test Statistic                       | 0.891 |   |   |   |                             |   |   | <b>Shapiro Wilk GOF Test</b>                            |        |   |
| 148 |  | 5% Shapiro Wilk Critical Value                    | 0.911 |   |   |   |                             |   |   | Detected Data Not Lognormal at 5% Significance Level    |        |   |
| 149 |  | Lilliefors Test Statistic                         | 0.184 |   |   |   |                             |   |   | <b>Lilliefors GOF Test</b>                              |        |   |
| 150 |  | 5% Lilliefors Critical Value                      | 0.189 |   |   |   |                             |   |   | Detected Data appear Lognormal at 5% Significance Level |        |   |
| 151 | <b>Detected Data appear Approximate Lognormal at 5% Significance Level</b>   |   |       |   |   |   |                             |   |   |   |        |   |
| 152 |  |   |       |   |   |   |                             |   |   |   |        |   |
| 153 | <b>Lognormal ROS Statistics Using Imputed Non-Detects</b>  |   |       |   |   |   |                             |   |   |   |        |   |
| 154 |  | Mean in Original Scale                            | 4.011 |   |   |   |                             |   |   | Mean in Log Scale                                       | 1.041  |   |
| 155 |  | SD in Original Scale                              | 4.699 |   |   |   |                             |   |   | SD in Log Scale   | 0.775  |   |
| 156 |  | 95% t UCL (assumes normality of ROS data)         | 5.694 |   |   |   |                             |   |   | 95% Percentile Bootstrap UCL                            | 5.801  |   |
| 157 |  | 95% BCA Bootstrap UCL                             | 6.613 |   |   |   |                             |   |   | 95% Bootstrap t UCL                                     | 7.869  |   |
| 158 |  | 95% H-UCL (Log ROS)                               | 5.548 |   |   |   |                             |   |   |   |        |   |
| 159 |  |   |       |   |   |   |                             |   |   |   |        |   |
| 160 | <b>UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed</b>                     |   |       |   |   |   |                             |   |   |   |        |   |
| 161 |  | KM Mean (logged)                                  | 1.064 |   |   |   |                             |   |   | 95% H-UCL (KM -Log)                                     | 5.222  |   |
| 162 |  | KM SD (logged)                                    | 0.716 |   |   |   |                             |   |   | 95% Critical H Value (KM-Log)                           | 2.184  |   |
| 163 |  | KM Standard Error of Mean (logged)                | 0.153 |   |   |   |                             |   |   |   |        |   |
| 164 |  |   |       |   |   |   |                             |   |   |   |        |   |
| 165 | <b>DL/2 Statistics</b>   |   |       |   |   |   |                             |   |   |   |        |   |
| 166 |  | <b>DL/2 Normal</b>                                |       |   |   |   | <b>DL/2 Log-Transformed</b> |   |   |   |        |   |
| 167 |  | Mean in Original Scale                            | 4.008 |   |   |   |                             |   |   | Mean in Log Scale                                       | 1.034  |   |
| 168 |  | SD in Original Scale                              | 4.702 |   |   |   |                             |   |   | SD in Log Scale   | 0.791  |   |
| 169 |  | 95% t UCL (Assumes normality)                     | 5.691 |   |   |   |                             |   |   | 95% H-Stat UCL  | 5.636  |   |
| 170 | <b>DL/2 is not a recommended method, provided for comparisons and historical reasons</b>                                     |   |       |   |   |   |                             |   |   |   |        |   |
| 171 |  |   |       |   |   |   |                             |   |   |   |        |   |
| 172 | <b>Nonparametric Distribution Free UCL Statistics</b>  |   |       |   |   |   |                             |   |   |   |        |   |
| 173 | <b>Detected Data appear Approximate Lognormal Distributed at 5% Significance Level</b>                                       |   |       |   |   |   |                             |   |   |   |        |   |
| 174 |  |   |       |   |   |   |                             |   |   |   |        |   |
| 175 | <b>Suggested UCL to Use</b>  |   |       |   |   |   |                             |   |   |   |        |   |
| 176 |  | 95% KM (Chebyshev) UCL                            | 8.293 |   |   |   |                             |   |   |   |        |   |
| 177 |  |   |       |   |   |   |                             |   |   |   |        |   |
| 178 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. |   |       |   |   |   |                             |   |   |   |        |   |
| 179 | Recommendations are based upon data size, data distribution, and skewness.   |   |       |   |   |   |                             |   |   |   |        |   |
| 180 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).     |   |       |   |   |   |                             |   |   |   |        |   |

|     | A   | B | C | D | E     | F | G   | H | I | J | K      | L |
|-----|---|---|---|---|-------|---|---|---|---|---|--------|---|
| 181 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. |   |   |   |       |   |   |   |   |   |        |   |
| 182 |   |   |   |   |       |   |   |   |   |   |        |   |
| 183 | <b>TI</b>   |   |   |   |       |   |   |   |   |   |        |   |
| 184 |   |   |   |   |       |   |   |   |   |   |        |   |
| 185 | <b>General Statistics</b>   |   |   |   |       |   |   |   |   |   |        |   |
| 186 | Total Number of Observations  |   |   |   | 23    |   | Number of Distinct Observations                                 |   |   |   | 18     |   |
| 187 | Number of Detects   |   |   |   | 22    |   | Number of Non-Detects   |   |   |   | 1      |   |
| 188 | Number of Distinct Detects  |   |   |   | 17    |   | Number of Distinct Non-Detects                                  |   |   |   | 1      |   |
| 189 | Minimum Detect  |   |   |   | 1.3   |   | Minimum Non-Detect  |   |   |   | 0.95   |   |
| 190 | Maximum Detect  |   |   |   | 6.3   |   | Maximum Non-Detect  |   |   |   | 0.95   |   |
| 191 | Variance Detects  |   |   |   | 1.565 |   | Percent Non-Detects   |   |   |   | 4.348% |   |
| 192 | Mean Detects  |   |   |   | 2.745 |   | SD Detects  |   |   |   | 1.251  |   |
| 193 | Median Detects  |   |   |   | 2.3   |   | CV Detects  |   |   |   | 0.456  |   |
| 194 | Skewness Detects  |   |   |   | 1.669 |   | Kurtosis Detects  |   |   |   | 2.597  |   |
| 195 | Mean of Logged Detects  |   |   |   | 0.93  |   | SD of Logged Detects  |   |   |   | 0.394  |   |
| 196 |   |   |   |   |       |   |   |   |   |   |        |   |
| 197 | <b>Normal GOF Test on Detects Only</b>  |   |   |   |       |   |   |   |   |   |        |   |
| 198 | Shapiro Wilk Test Statistic   |   |   |   | 0.818 |   | <b>Shapiro Wilk GOF Test</b>                                    |   |   |   |        |   |
| 199 | 5% Shapiro Wilk Critical Value  |   |   |   | 0.911 |   | Detected Data Not Normal at 5% Significance Level               |   |   |   |        |   |
| 200 | Lilliefors Test Statistic   |   |   |   | 0.214 |   | <b>Lilliefors GOF Test</b>                                      |   |   |   |        |   |
| 201 | 5% Lilliefors Critical Value  |   |   |   | 0.189 |   | Detected Data Not Normal at 5% Significance Level               |   |   |   |        |   |
| 202 | <b>Detected Data Not Normal at 5% Significance Level</b>  |   |   |   |       |   |   |   |   |   |        |   |
| 203 |   |   |   |   |       |   |   |   |   |   |        |   |
| 204 | <b>Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs</b>   |   |   |   |       |   |   |   |   |   |        |   |
| 205 | Mean  |   |   |   | 2.667 |   | Standard Error of Mean  |   |   |   | 0.267  |   |
| 206 | SD  |   |   |   | 1.25  |   | 95% KM (BCA) UCL  |   |   |   | 3.143  |   |
| 207 | 95% KM (t) UCL  |   |   |   | 3.125 |   | 95% KM (Percentile Bootstrap) UCL                               |   |   |   | 3.13   |   |
| 208 | 95% KM (z) UCL  |   |   |   | 3.106 |   | 95% KM Bootstrap t UCL  |   |   |   | 3.335  |   |
| 209 | 90% KM Chebyshev UCL  |   |   |   | 3.468 |   | 95% KM Chebyshev UCL  |   |   |   | 3.83   |   |
| 210 | 97.5% KM Chebyshev UCL  |   |   |   | 4.333 |   | 99% KM Chebyshev UCL  |   |   |   | 5.322  |   |
| 211 |   |   |   |   |       |   |   |   |   |   |        |   |
| 212 | <b>Gamma GOF Tests on Detected Observations Only</b>  |   |   |   |       |   |   |   |   |   |        |   |
| 213 | A-D Test Statistic  |   |   |   | 0.803 |   | <b>Anderson-Darling GOF Test</b>                                |   |   |   |        |   |
| 214 | 5% A-D Critical Value   |   |   |   | 0.746 |   | Detected Data Not Gamma Distributed at 5% Significance Level    |   |   |   |        |   |
| 215 | K-S Test Statistic  |   |   |   | 0.176 |   | <b>Kolmogrov-Smirnoff GOF</b>                                   |   |   |   |        |   |
| 216 | 5% K-S Critical Value   |   |   |   | 0.186 |   | Detected data appear Gamma Distributed at 5% Significance Level |   |   |   |        |   |
| 217 | <b>Detected data follow Appr. Gamma Distribution at 5% Significance Level</b>   |   |   |   |       |   |   |   |   |   |        |   |
| 218 |   |   |   |   |       |   |   |   |   |   |        |   |
| 219 | <b>Gamma Statistics on Detected Data Only</b>   |   |   |   |       |   |   |   |   |   |        |   |
| 220 | k hat (MLE)   |   |   |   | 6.39  |   | k star (bias corrected MLE)                                     |   |   |   | 5.549  |   |
| 221 | Theta hat (MLE)   |   |   |   | 0.43  |   | Theta star (bias corrected MLE)                                 |   |   |   | 0.495  |   |
| 222 | nu hat (MLE)  |   |   |   | 281.1 |   | nu star (bias corrected)  |   |   |   | 244.1  |   |
| 223 | MLE Mean (bias corrected)   |   |   |   | 2.745 |   | MLE Sd (bias corrected)   |   |   |   | 1.166  |   |
| 224 |   |   |   |   |       |   |   |   |   |   |        |   |
| 225 | <b>Gamma Kaplan-Meier (KM) Statistics</b>   |   |   |   |       |   |   |   |   |   |        |   |
| 226 | k hat (KM)  |   |   |   | 4.554 |   | nu hat (KM)   |   |   |   | 209.5  |   |
| 227 | Approximate Chi Square Value (209.46, $\alpha$ )  |   |   |   | 177   |   | Adjusted Chi Square Value (209.46, $\beta$ )                    |   |   |   | 174.8  |   |
| 228 | 95% Gamma Approximate KM-UCL (use when $n \geq 50$ )  |   |   |   | 3.157 |   | 95% Gamma Adjusted KM-UCL (use when $n < 50$ )                  |   |   |   | 3.196  |   |
| 229 |   |   |   |   |       |   |   |   |   |   |        |   |
| 230 | <b>Gamma ROS Statistics using Imputed Non-Detects</b>   |   |   |   |       |   |   |   |   |   |        |   |
| 231 | GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs  |   |   |   |       |   |   |   |   |   |        |   |
| 232 | GROS may not be used when kstar of detected data is small such as < 0.1   |   |   |   |       |   |   |   |   |   |        |   |
| 233 | For such situations, GROS method tends to yield inflated values of UCLs and BTVs  |   |   |   |       |   |   |   |   |   |        |   |
| 234 | For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates                               |   |   |   |       |   |   |   |   |   |        |   |
| 235 | Minimum   |   |   |   | 0.482 |   | Mean  |   |   |   | 2.647  |   |

|     | A   | B | C | D | E   | F     | G | H | I | J | K   | L      |  |
|-----|---|---|---|---|---|-------|---|---|---|---|---|--------|--|
| 236 |   |   |   |   | Maximum   | 6.3   |   |   |   |   | Median  | 2.3    |  |
| 237 |   |   |   |   | SD  | 1.31  |   |   |   |   | CV  | 0.495  |  |
| 238 |   |   |   |   | k hat (MLE)                                       | 4.474 |   |   |   |   | k star (bias corrected MLE)                             | 3.919  |  |
| 239 |   |   |   |   | Theta hat (MLE)                                   | 0.592 |   |   |   |   | Theta star (bias corrected MLE)                         | 0.675  |  |
| 240 |   |   |   |   | nu hat (MLE)                                      | 205.8 |   |   |   |   | nu star (bias corrected)                                | 180.3  |  |
| 241 |   |   |   |   | MLE Mean (bias corrected)                         | 2.647 |   |   |   |   | MLE Sd (bias corrected)                                 | 1.337  |  |
| 242 |   |   |   |   |   |       |   |   |   |   | Adjusted Level of Significance ( $\beta$ )              | 0.0389 |  |
| 243 |   |   |   |   | Approximate Chi Square Value (180.28, $\alpha$ )  | 150.2 |   |   |   |   | Adjusted Chi Square Value (180.28, $\beta$ )            | 148.2  |  |
| 244 |   |   |   |   | 95% Gamma Approximate UCL (use when $n \geq 50$ ) | 3.177 |   |   |   |   | 95% Gamma Adjusted UCL (use when $n < 50$ )             | 3.219  |  |
| 245 | <b>Lognormal GOF Test on Detected Observations Only</b>   |   |   |   |   |       |   |   |   |   |   |        |  |
| 246 | <b>Lognormal GOF Test on Detected Observations Only</b>   |   |   |   |   |       |   |   |   |   |   |        |  |
| 247 |   |   |   |   | Shapiro Wilk Test Statistic                       | 0.943 |   |   |   |   | <b>Shapiro Wilk GOF Test</b>                            |        |  |
| 248 |   |   |   |   | 5% Shapiro Wilk Critical Value                    | 0.911 |   |   |   |   | Detected Data appear Lognormal at 5% Significance Level |        |  |
| 249 |   |   |   |   | Lilliefors Test Statistic                         | 0.15  |   |   |   |   | <b>Lilliefors GOF Test</b>                              |        |  |
| 250 |   |   |   |   | 5% Lilliefors Critical Value                      | 0.189 |   |   |   |   | Detected Data appear Lognormal at 5% Significance Level |        |  |
| 251 | <b>Detected Data appear Lognormal at 5% Significance Level</b>  |   |   |   |   |       |   |   |   |   |   |        |  |
| 252 | <b>Detected Data appear Lognormal at 5% Significance Level</b>  |   |   |   |   |       |   |   |   |   |   |        |  |
| 253 | <b>Lognormal ROS Statistics Using Imputed Non-Detects</b>   |   |   |   |   |       |   |   |   |   |   |        |  |
| 254 |   |   |   |   | Mean in Original Scale                            | 2.668 |   |   |   |   | Mean in Log Scale                                       | 0.888  |  |
| 255 |   |   |   |   | SD in Original Scale                              | 1.277 |   |   |   |   | SD in Log Scale   | 0.434  |  |
| 256 |   |   |   |   | 95% t UCL (assumes normality of ROS data)         | 3.125 |   |   |   |   | 95% Percentile Bootstrap UCL                            | 3.109  |  |
| 257 |   |   |   |   | 95% BCA Bootstrap UCL                             | 3.2   |   |   |   |   | 95% Bootstrap t UCL                                     | 3.324  |  |
| 258 |   |   |   |   | 95% H-UCL (Log ROS)                               | 3.189 |   |   |   |   |   |        |  |
| 259 | <b>UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed</b>                                  |   |   |   |   |       |   |   |   |   |   |        |  |
| 260 | <b>UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed</b>                                  |   |   |   |   |       |   |   |   |   |   |        |  |
| 261 |   |   |   |   | KM Mean (logged)                                  | 0.887 |   |   |   |   | 95% H-UCL (KM -Log)                                     | 3.163  |  |
| 262 |   |   |   |   | KM SD (logged)                                    | 0.426 |   |   |   |   | 95% Critical H Value (KM-Log)                           | 1.912  |  |
| 263 |   |   |   |   | KM Standard Error of Mean (logged)                | 0.091 |   |   |   |   |   |        |  |
| 264 | <b>DL/2 Statistics</b>  |   |   |   |   |       |   |   |   |   |   |        |  |
| 265 | <b>DL/2 Statistics</b>  |   |   |   |   |       |   |   |   |   |   |        |  |
| 266 |   |   |   |   | <b>DL/2 Normal</b>                                |       |   |   |   |   | <b>DL/2 Log-Transformed</b>                             |        |  |
| 267 |   |   |   |   | Mean in Original Scale                            | 2.647 |   |   |   |   | Mean in Log Scale                                       | 0.857  |  |
| 268 |   |   |   |   | SD in Original Scale                              | 1.311 |   |   |   |   | SD in Log Scale   | 0.52   |  |
| 269 |   |   |   |   | 95% t UCL (Assumes normality)                     | 3.116 |   |   |   |   | 95% H-Stat UCL  | 3.361  |  |
| 270 | <b>DL/2 is not a recommended method, provided for comparisons and historical reasons</b>  |   |   |   |   |       |   |   |   |   |   |        |  |
| 271 | <b>DL/2 is not a recommended method, provided for comparisons and historical reasons</b>  |   |   |   |   |       |   |   |   |   |   |        |  |
| 272 | <b>Nonparametric Distribution Free UCL Statistics</b>   |   |   |   |   |       |   |   |   |   |   |        |  |
| 273 | <b>Detected Data appear Approximate Gamma Distributed at 5% Significance Level</b>  |   |   |   |   |       |   |   |   |   |   |        |  |
| 274 | <b>Detected Data appear Approximate Gamma Distributed at 5% Significance Level</b>  |   |   |   |   |       |   |   |   |   |   |        |  |
| 275 | <b>Suggested UCL to Use</b>   |   |   |   |   |       |   |   |   |   |   |        |  |
| 276 |   |   |   |   | 95% KM (BCA) UCL                                  | 3.143 |   |   |   |   | 95% GROS Adjusted Gamma UCL                             | 3.219  |  |
| 277 |   |   |   |   | 95% Adjusted Gamma KM-UCL                         | 3.196 |   |   |   |   |   |        |  |
| 278 | <b>Suggested UCL to Use</b>   |   |   |   |   |       |   |   |   |   |   |        |  |
| 279 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.              |   |   |   |   |       |   |   |   |   |   |        |  |
| 280 | Recommendations are based upon data size, data distribution, and skewness.  |   |   |   |   |       |   |   |   |   |   |        |  |
| 281 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).                  |   |   |   |   |       |   |   |   |   |   |        |  |
| 282 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. |   |   |   |   |       |   |   |   |   |   |        |  |