June 19, 2011

Ms. Pamela Meyer
Director
Urban Enterprise Association of South Bend, Inc.
227 West Jefferson Boulevard
South Bend, Indiana 46601

**Re: Limited Phase II Environmental Site Assessment Report**
**Sample Street Business Complex**
**3702 West Sample Street in South Bend, Indiana**

Dear Ms. Meyer:

Heartland Environmental Associates, Inc. (Heartland) is pleased to provide the Urban Enterprise Association of South Bend, Inc. (UEA) with this Limited Phase II Environmental Site Assessment (Phase II ESA) Report. This Phase II ESA report serves to document soil and groundwater sampling activities completed at the Sample Street Business Complex, located at 3702 West Sample Street in South Bend, Indiana. The objective of this Phase II ESA was to evaluate for the presence/absence of chemical impacts to soil and groundwater resulting from historic industrial operations conducted at the site.

Provided below is a background summary followed by a description of the Phase II ESA sampling and analysis activities, the findings, conclusions and recommendations.

## *Background*

The site was originally developed as the Torrington Company Heaving Bearing Facility in 1928 and utilized for the manufacture of metal bearings. The facility expanded several times, last expanding in 1967. The site historically operated an approximately 333,000 square foot manufacturing facility encompassing 15 acres of property. The site historically operated two underground storage tank (UST) areas and five storm water and cool water ponds located at the south end of the property. The site ceased manufacturing operations in September 1983. A site location map is included as Figure 1.

From 1984 through 1991 numerous subsurface soil and groundwater investigations were conducted at the site. These investigations were primarily centered around the two former UST areas and in the vicinity of the storm water and cool water ponds. The site investigations incorporated the advancement of several soil borings and the installation of groundwater monitoring wells to evaluate the presence of chemical impacts to soil and groundwater.

From 1984 to 1986, sampling events were conducted to evaluate soil and groundwater for the presence of volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH) and

polychlorinated biphenyls (PCBs). Sampling protocols utilized during the varying site assessments were inconsistent and chemical analyses requested varied from assessment to assessment.

Based on the results of these investigations, significantly elevated concentrations of VOCs in the form of trichloroethene (TCE), tetrachloroethene (PCE), dichloroethene and dichloroethane were encountered in pond sediments and water samples collected from the ponds. Furthermore, significantly elevated concentrations of TCE, PCE, dichloroethane, cis(1,2)dichloroethene, benzene and mineral spirits (light hydrocarbon chemicals) were encountered in soil and groundwater borings throughout the site. Chemical concentrations encountered exceeded current Indiana Department of Environmental Management (IDEM) Risk Integrated System of Closure (RISC) Industrial Default Closure Levels (IDCLs). The area with the highest concentration of impacts was encountered near the loading dock area located in the southwest portion of the site.

In July 1986, five USTs were removed from the site. These USTs historically contained petroleum products and chemical solvents. Soil confirmation samples taken after the removal of the USTs indicated TCE and dichloroethene impacts remained in the soil. Additionally, four of the five pond areas were excavated and removed, with approximately 1,700 cubic yards of impacted pond sediments removed from the site.

Additional site investigation was conducted from 1990 through 1991 to further evaluate the presence of chemical impacts at the site. Based on these investigative activities, additional groundwater impacts in the form of VOCs were encountered in both existing groundwater monitoring wells and newly installed shallow and deep groundwater monitoring wells. Chemical impacts were also encountered in groundwater monitoring wells installed down-gradient from the source areas at the site. Testing of the groundwater monitoring wells near the loading dock area indicated that free product light non-aqueous phase liquid (LNAPL) petroleum existed in the area.

Laboratory analysis of soil and groundwater for metals indicated that elevated concentrations of metals were encountered in fill material higher than normal background concentrations in the area. The highest concentration of impacts still remained in the southwest portion of the site and associated with the cool water pond identified as “Pond 4”. Visual chemical impacts were noted down to 5 feet in the area of the pond. Concentrations of cyanide were encountered in these sediments, however no PCBs were present.

In August 1992, the area surrounding “Pond 4” was excavated and removed. Approximately 960 cubic yards of sediment were removed from this area to a depth of 7 feet below ground surface. Soil sampling results after the excavation of pond sediments indicated that VOC impacts to soil still remained at depth. Based on the results of these investigations, it was conceded that impacts to soil and groundwater at the site were much more widespread that initially estimated.

From 1992 through 1994, pilot testing and engineering was completed to design a soil vapor extraction (SVE) and air sparging (AS) remediation system. This remediation system was designed to remediate free product petroleum and VOC impacts to both soil and groundwater at the site. The design called for the construction of two separate remediation systems. The first system was to be installed in the loading dock area to remediate impacts in that location. The second remediation system was to be installed in the eastern portion of the site building to

remediate VOC impacts in that location.

In February 1995, the system was formally recommended. The system was installed in late 1995/ early 1996 and began full time operation midyear 1996. At the time, the designed Corrective Action Work Plan referred to IDEM Tier II Cleanup Goals as the standard to monitor the effectiveness of the remediation system. No formal consultation with IDEM was conducted as part of the site investigation or remedial design. The annual system effectiveness report for the year 1998 indicated that the system was running efficiently with a 90% run time; however free product petroleum was still present in groundwater monitoring wells at the loading dock and both TCE and PCE were still encountered at elevated concentrations throughout the site. No additional documentation was available after this date regarding the remediation system or pertaining to any system closure.

Based on the lack of documentation related to the final remediation system operation, system closure documentation and the lack of soil and groundwater sampling data documenting system effectiveness, Heartland recommended that the UEA conduct a Limited Phase II ESA in the formerly identified source areas. The Limited Phase II ESA was recommended to evaluate for the presence or absence of residual chemical impacts present in the soil and groundwater and to evaluate the effectiveness of previously conducted remedial efforts in accordance with current IDEM guidance.

## *Limited Phase II ESA Investigation*

From May 11 to May 13, 2011, Heartland personnel provided oversight for the advancement of 10 direct-push soil borings advanced to varying depths. Midway Services, Inc. of Knightstown, Indiana was mobilized onsite to advance the soil borings. Soil borings SB-1 through SB-3 were advanced in the southwest loading dock area in the location of the previously located USTs. Soil borings SB-4 through SB-6 were advanced in the southern portion of the site in the locations of the former cooling ponds. Soil borings SB-7 through SB-10 were advanced in the southeastern and eastern portions of the site in the locations of former USTs and chemical storage areas. A site layout map depicting soil boring locations is provided as Figure 2.

Soil sample intervals were continuously logged and the soil lithology was described on Heartland boring logs. Soils in the areas of investigation consisted of fill material underlain by sand and gravelly sands. The soil samples were inspected for indications of chemical impacts, such as staining and odors. The soil samples collected from the borings were continuously screened for soil vapors using a pre-calibrated photo-ionization detector (PID) organic vapor monitor. Soil borings logs are included as Attachment A.

From soil borings SB-1 and SB-2, a total of two soil samples were collected for laboratory analysis. One soil sample was collected from the initially encountered subsurface interval and one sample was collected from the interval exhibiting the highest PID reading above the first encountered groundwater saturated zone. From soil boring SB-3, a total of three soil samples were collected. One soil sample was collected from the initially encountered subsurface interval and two samples were collected from intervals with elevated PID readings above the first encountered groundwater saturated zone. From soil borings SB-4, SB-5, SB-8 and SB-10, a total of three soil samples were collected. One soil sample was collected from the initially encountered subsurface interval, one sample was collected at the interval immediately above the

first encountered groundwater saturated zone and one sample was collected from the interval with elevated PID readings above the first encountered groundwater saturated zone and one soil sample was collected from the interval exhibiting the highest PID reading beneath the first encountered groundwater saturated zone. From soil borings SB-6, SB-7 and SB-9, a total of two soil samples were collected for laboratory analysis. Samples were collected from the initially encountered subsurface interval and from the interval immediately above the first encountered groundwater saturated zone.

All collected soil samples were submitted for laboratory analysis of total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and extended range organics (ERO) using USEPA SW-846 Method 8015M and for VOCs using USEPA SW-846 Method 8260. For soil borings SB-1 through SB-3, all sample intervals were submitted for additional analysis of RCRA Metals using USEPA SW-846 Method 6010B/7471. For soil samples SB-4 through SB-10, the initial encountered subsurface interval sampled was analyzed for Priority Pollutant Metals using USEPA SW-846 Method 6010B/7471.

In addition to the soil samples collected, grab groundwater samples were collected from each of the soil borings advanced within the first encountered groundwater saturated zone. Groundwater samples collected were submitted for laboratory analysis using US EPA SW-846 Method 8260 for VOCs.

Prior to the onset of the Phase II ESA, Heartland personnel completed a site reconnaissance and evaluated the existing groundwater monitoring wells located at the site. Each monitoring well was gauged to determine the total depth of the wells and evaluated for the presence of excess sediment within each well. If necessary, groundwater monitoring wells were developed utilizing IDEM approved well development methodology.

After the locating and evaluation of the existing groundwater monitoring well network, Heartland evaluated previously conducted site assessments and determined the integrity of the evaluated wells. From May 18 through May 19, 2011, Heartland collected groundwater samples from 10 of the groundwater monitoring wells located in the central and southern portion of the site. Groundwater monitoring wells located in the northern portion of the site and located to the north of the site across West Sample Street were not sampled as part of this Phase II ESA. A site layout map depicting existing and destroyed groundwater monitoring wells is provided as Figure 2.

Each groundwater monitoring well was sampled utilizing IDEM approved low flow sampling methodology. Samples collected from each of the groundwater monitoring wells were submitted for laboratory analysis of VOCs using USEPA SW-846 Method 8260.

All collected soil and groundwater samples were placed into laboratory prepared sample containers and stored in a secured, iced cooler (at 4°C). Samples were transported to Envision Laboratories, Inc. in Indianapolis, Indiana and submitted for laboratory analysis under Heartland's chain of custody protocol.

## *Groundwater Flow*

On May 19, 2011, Heartland personnel measured and recorded static water levels in select existing groundwater monitoring wells. After evaluation of site conditions and a review of

historic reports, Heartland determined that historic survey datum collected was still suitable to determine groundwater flow direction. Free product was not detected in the monitoring wells. Based on the static water level measurements collected on May 19, 2011, groundwater flow at the site is to the east-northeast. This is consistent with previously measured flow directions. Static water level measurements and groundwater monitoring well survey datum is summarized on Table 1. A groundwater flow map is provided as Figure 3.

## *Soil Analytical Results*

### *Total Petroleum Hydrocarbons*

Soil impacts exceeding IDEM RISC IDCLs for TPH (ERO) were encountered in soil boring SB-1 from 10' – 12' below ground surface (bgs) and in soil boring SB-2 from 10' – 12' bgs. Additionally, soil impacts exceeding IDEM RISC RDCLs for TPH (ERO) were encountered in soil boring SB-3 from 5' – 7' and 8' – 10' bgs. TPH soil analytical results are depicted on Figure 4 and summarized in Table 2. The laboratory analytical report is provided as Attachment B.

### *Volatile Organic Compounds*

Soil impacts exceeding IDEM RISC RDCLs for VOCs were not encountered in any of the sampled soil intervals. VOC soil analytical results are depicted on Figure 4 and summarized in Table 2. The laboratory analytical report is provided as Attachment B.

### *Metals*

Soil impacts exceeding IDEM RISC IDCLs were encountered for lead in one soil boring (SB-1) from a depth of 3 feet to 4 feet bgs. Additionally, arsenic was encountered exceeding IDEM RISC RDCLS in soil boring SB-9 from 2 feet to 4 feet bgs. Metals impacts exceeding IDEM RISC RDCLs were not encountered in any of the remaining sampled soil intervals. Metals in soil analytical results are depicted on Figure 4 and summarized in Table 3. The laboratory analytical report is provided as Attachment B.

## *Groundwater Analytical Results*

### *Volatile Organic Compounds*

Groundwater impacts exceeding IDEM RISC RDCLs for 1,1-Dichloroethane were encountered in one of the soil borings (SB-10). No other chemicals of concern exceeding IDEM RISC RDCLs were encountered within the soil borings or groundwater monitoring wells sampled. VOC groundwater analytical results are depicted on Figure 5 and summarized in Table 4. The laboratory analytical report is provided as Attachment B.

## *Conclusions & Recommendations*

Heartland has completed Phase II ESA activities that included the advancement of ten soil borings, and sampling of existing groundwater monitoring wells and the analyzing of soil and groundwater samples from the site. The objective of this Phase II ESA was to evaluate for the presence/absence of chemical impacts to soil and groundwater and to evaluate the effectiveness of

historic remedial efforts at the site.

Based on the results of this Phase II ESA, impacts exceeding IDEM RISC IDCLs for TPH (ERO) are present in the southwestern loading dock area of the site. Lead impacts are also present in one soil boring at the initial encountered subsurface soil interval in this location. These impacts are present in the location of historic USTs present at the site containing fuel oil.

Soil and groundwater samples collected in the direct vicinity of the historic cooling ponds exhibited no impacts exceeding IDEM RISC RDCLs. One soil boring (SB-9) exhibited an arsenic concentration of 4.5 parts of per billion (ppb), slightly exceeding the IDEM RISC RDCL of 3.9 ppb. This is concentration only slightly exceeds the IDEM RISC RDCL and is consistent with background arsenic concentrations found in other areas of the site. Soil and groundwater samples collected from historic chemical storage areas in the eastern and southeastern portion of the site exhibited no impacts exceeding IDEM RISC RDCLs.

Based on these results, and after further evaluation of historic environmental assessments conducted at the property, it appears the previously conducted remedial efforts were effective in remediating the soil and groundwater impacts in the previously defined chemical source areas at the site. Excavation of the cooling pond areas was effective in removing source materials in these areas and the previously operated AS/SVE system appears to have been effective in removing chemical impacts and free product LNAPLs within the source areas at the site. Residual TPH impacts in the loading dock area are in significantly lower concentrations than previously detected.

Heartland completed two of the soil borings to a depth of approximately 60 feet bgs, or to the location of the first encountered groundwater aquitard unit. No evidence of dense non-aqueous phase liquids was encountered in these locations.

Based on the results of this Phase II ESA, it is unlikely that the previously identified source areas present a continual threat to soil and groundwater at the site. Heartland does not recommend further evaluation of these areas at this time.

It should be noted that existing groundwater monitoring wells at the site were not installed in a manner consistent with current IDEM standards. Monitoring well depths greatly varied and wells were installed at intervals not suitable to fully evaluate both the shallow and deep encountered groundwater saturated zones. Additionally, numerous wells were not screened with sufficient screen material to fully evaluate groundwater zones.

Although the previous efforts appear to have been effective in remediating site impacts, IDEM guidance was not sought out during the initial environmental assessment and throughout the remediation process. The lack of IDEM guidance and the presence of TPH impacts in soil exceeding IDEM RISC IDCLs is a concern for the site. Should the UEA require a further degree of comfort regarding the site's status, Heartland recommends that the UEA consult with IDEM staff and enter the program into the IDEM Voluntary Remediation Program (VRP). The IDEM VRP allows for self-lead assessment and remedial efforts to be conducted, in accordance with IDEM guidance, and provides a "Certificate of Completion" for remedial efforts and provides site closure in accordance with IDEM protocols.

Should the UEA choose to seek out additional reassurance, enrolling the site in the IDEM VRP

would result in additional scrutiny of the site. Additional soil borings and the installation of a new groundwater monitoring well network would likely be required, along with a minimum of eight consecutive quarters of groundwater monitoring to document the existing, or lack thereof, of chemical impacts.

It should also be noted that several previously utilized remediation system observation wells and AS/SVE points are still present at the site, with several of the points in a damaged or exposed condition. Heartland recommends the UEA properly abandon each of these system points and remediation system observation wells per proper IDEM well abandonment protocols.

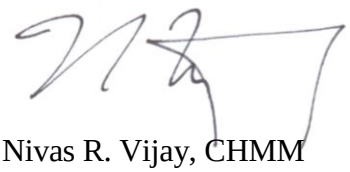
## *Report Disclaimer*

In preparing this Phase II ESA Report, Heartland has applied generally-accepted professional practices and standards and exercised its professional judgment, skill, and care in a manner consistent with that of other professionals performing similar work under similar conditions.

Please note that the results of any investigation can vary with time and location. All conclusions and opinions concerning the site are based on research and investigations of the site by Heartland, unless as otherwise noted in the report. Heartland is not responsible for independent conclusions or opinions made by others based on this report. This investigation was limited to the areas illustrated on the figures of this report.

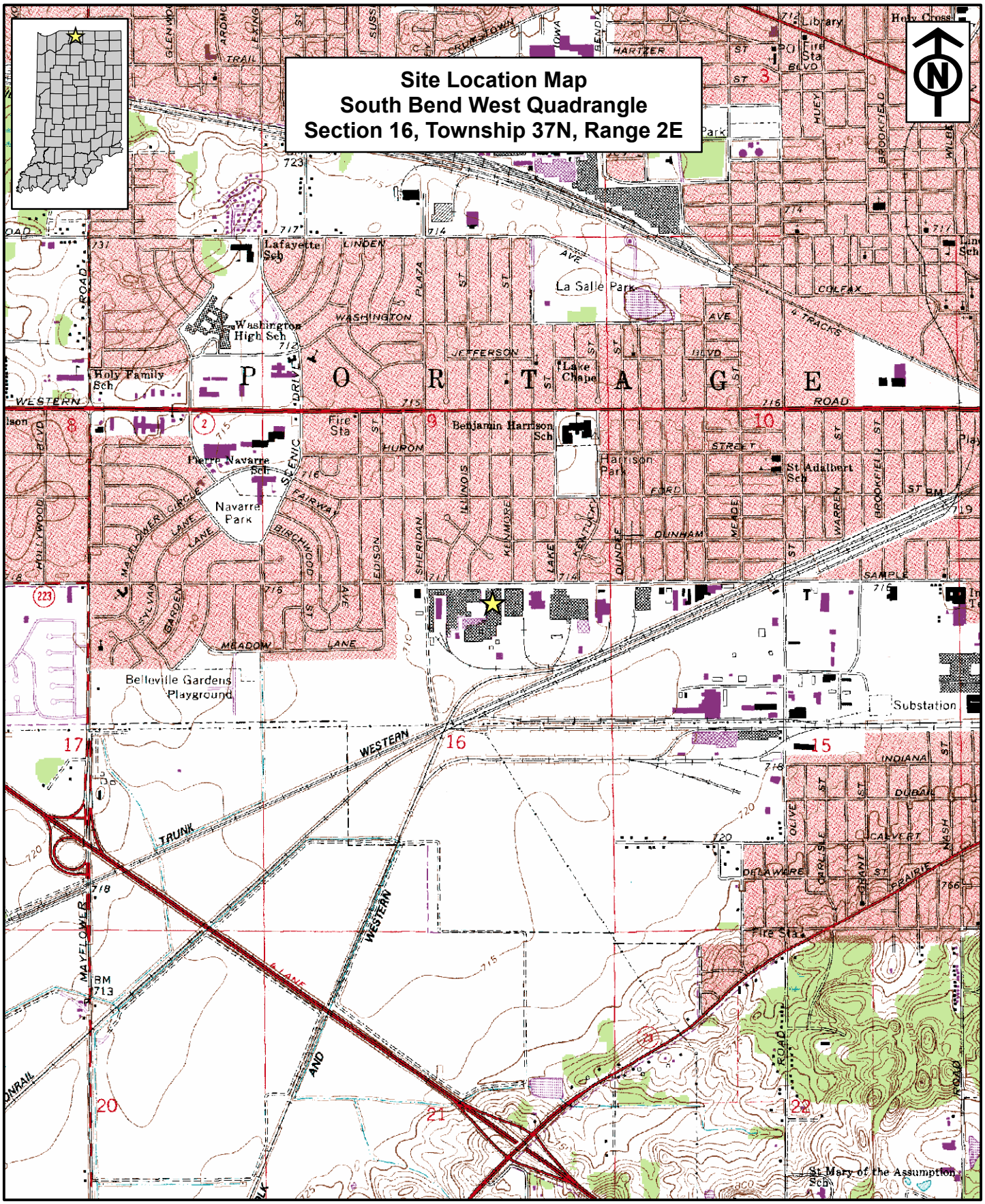
Should you have any questions regarding this letter report, please contact Nivas R. Vijay at (574) 289-1191.

Sincerely,



Nivas R. Vijay, CHMM
Senior Project Manager

# FIGURES




**Base Map: USGS 7.5 Minute DRG Quadrangle**

Heartland Environmental Associates, Inc.
3410 Mishawaka Avenue, South Bend, Indiana 46615

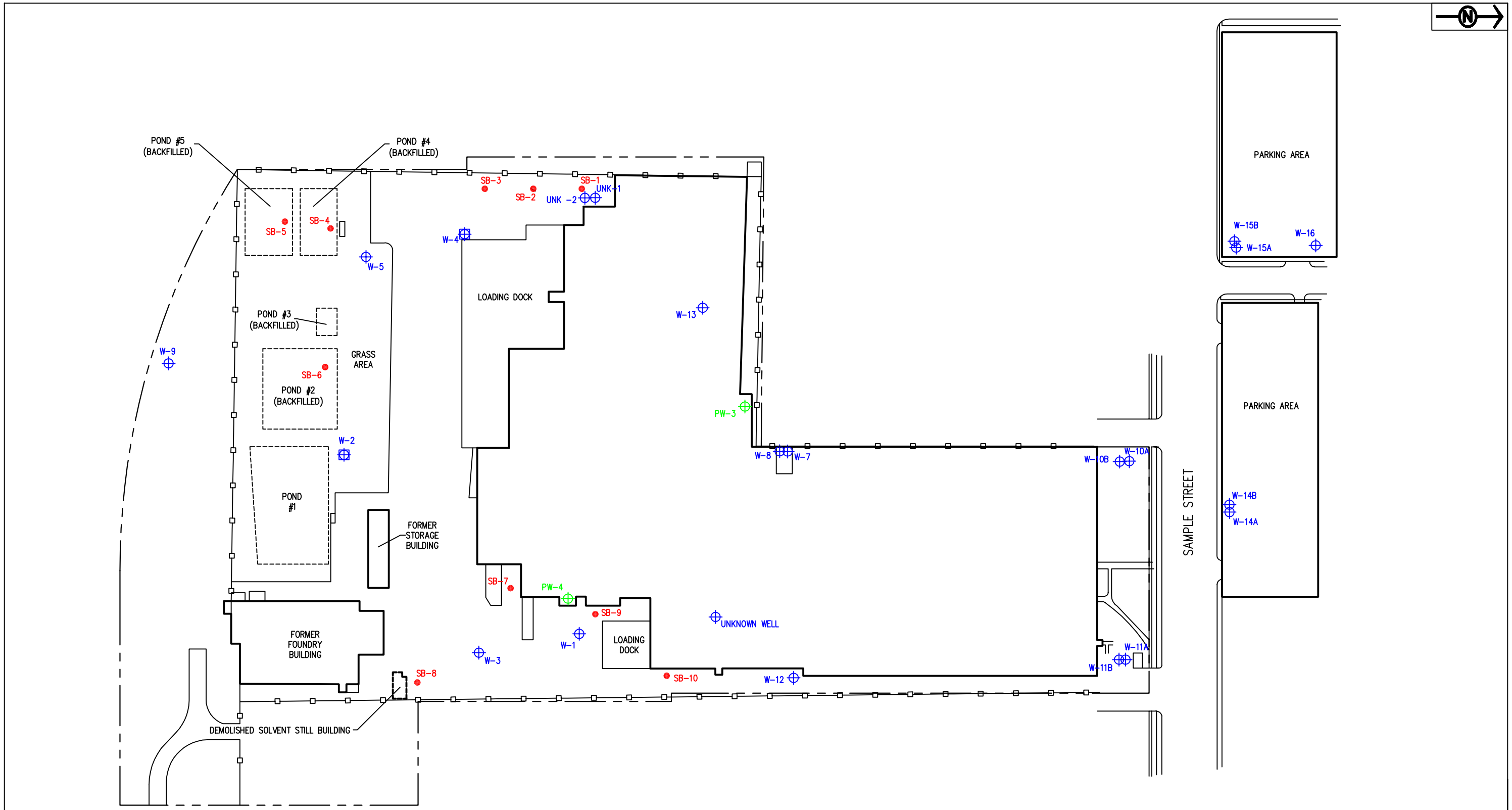
FIGURE 1
SITE LOCATION MAP

SAMPLE STREET BUSINESS COMPLEX
3702 WEST SAMPLE STREET
SOUTH BEND, INDIANA

Date: 6/13/11

Scale: 1"=2,000'

Drawn By: NV




Heartland Environmental Associates, Inc.
3410 Mishawaka Avenue, South Bend, Indiana 46615

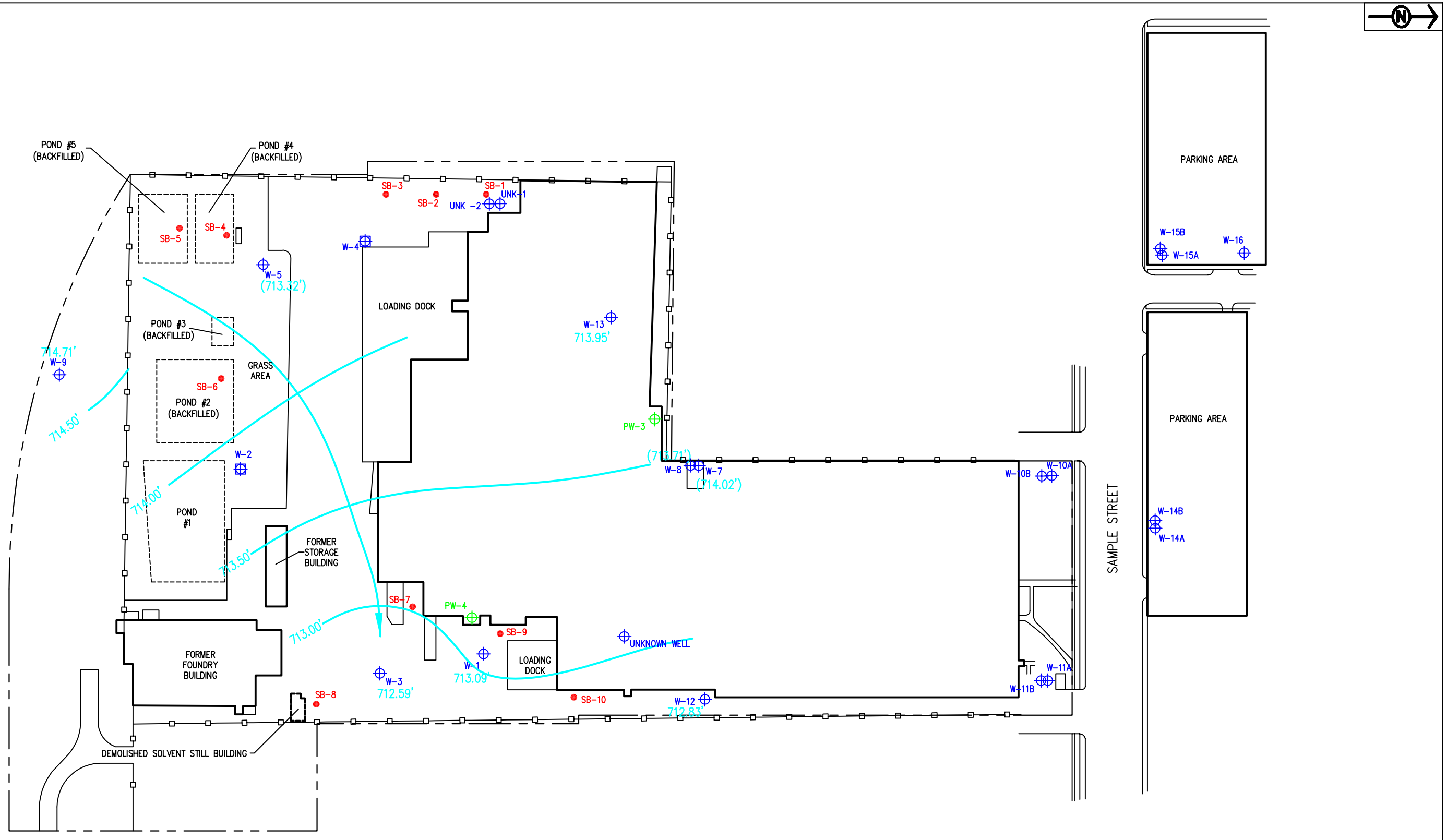
FIGURE 2
SITE LAYOUT MAP

SAMPLE STREET BUSINESS COMPLEX
3702 WEST SAMPLE STREET
SOUTH BEND, INDIANA

Date: 6/19/11

Scale: 1"=60'

Drawn By: NV




NOTE:
W-5, W-7 AND W-8 NOT USED BECAUSE THEY WERE GAUGED ON A DIFFERENT DATE.

Heartland Environmental Associates, Inc.
3410 Mishawaka Avenue, South Bend, Indiana 46615

FIGURE 3
GROUNDWATER FLOW MAP
5/19/11

SAMPLE STREET BUSINESS COMPLEX
3702 WEST SAMPLE STREET
SOUTH BEND, INDIANA

Date:
6/19/11

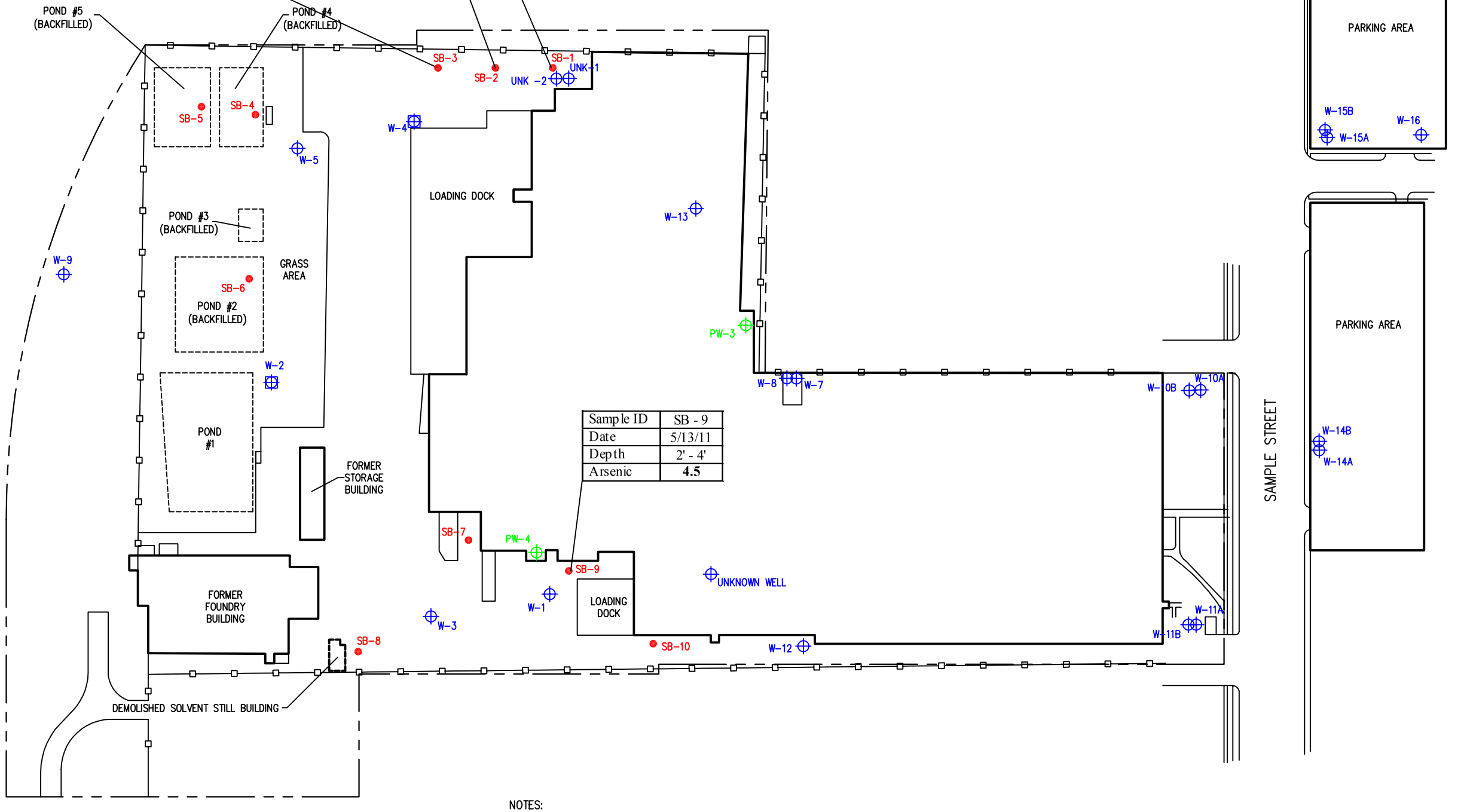
Scale:
1"=60'

Drawn By:
NV

| Sample ID | SB - 3 | | |
|---|---|---|---|
| Date | 5/11/11 | | |
| Depth | 2' - 4' | 5' - 7' | 7.8' - 9.8' |
| TPH (ERO) | <22 | **455** | **600** |

| Sample ID | SB - 2 | |
|---|---|---|
| Date | 5/11/11 | |
| Depth | 6.8' - 7.8' | 10' - 12' |
| TPH (ERO) | 135 | **5,400** |
| Vinyl Chloride | <2 | **<57** |

| Sample ID | SB - 1 | | Sample ID | SB - 1 | |
|---|---|---|---|---|---|
| Date | 5/11/11 | | Date | 5/11/11 | |
| Depth | 3' - 4' | 10 ' 12' | Depth | 3' - 4' | 10 ' 12' |
| TPH (ERO) | 73.1 | **3,670** | Lead | **240** | 6.5 |




| Sample ID | SB - 9 |
|---|---|
| Date | 5/13/11 |
| Depth | 2' - 4' |
| Arsenic | **4.5** |

NOTES:
VALUES PRESENTED IN PARTS PER BILLION (PPB) OR UG/L.
TPH PRESENTED IN PARTS PER MILLION (PPM) OR MG/KG.
BOLD CELL DENOTES VALUE EXCEEDS RISC DEFAULT RESIDENTIAL CLOSURE LEVEL.
SHADED CELLDENOTES VALUE EXCEEDS RISC DEFAULT INDUSTRIAL CLOSURE LEVEL.

LEGEND
- MONITORING WELL
- HISTORIC WATER WELL
- DEMOLISHED MONITORING WELL
- RETENTION POND
- FENCE LINE
- PROPERTY BOUNDARY

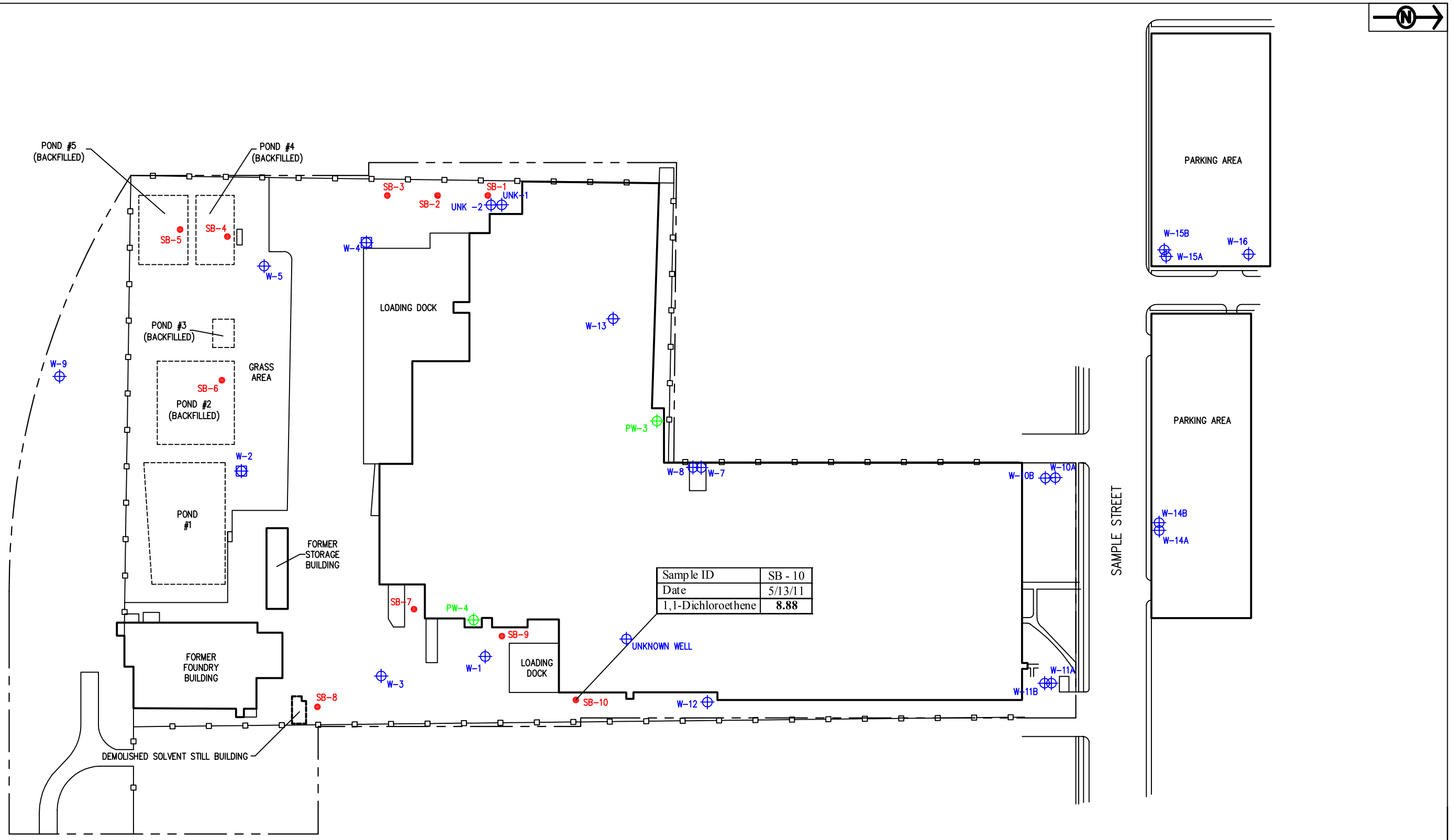
30' 0 60'

Heartland Environmental Associates, Inc.
3410 Mishawaka Avenue, South Bend, Indiana 46615

FIGURE 4
SOIL ANALYTICAL MAP

SAMPLE STREET BUSINESS COMPLEX
3702 WEST SAMPLE STREET
SOUTH BEND, INDIANA

Date: 6/19/11
Scale: 1"=60'
Drawn By: NV




NOTES:
VALUES PRESENTED IN PARTS PER BILLION (PPB) OR UG/L.
BOLD CELL DENOTES VALUE EXCEEDS RISC DEFAULT RESIDENTIAL CLOSURE LEVEL.

Heartland Environmental Associates, Inc.
3410 Mishawaka Avenue, South Bend, Indiana 46615

FIGURE 5
GROUNDWATER ANALYTICAL MAP

SAMPLE STREET BUSINESS COMPLEX
3702 WEST SAMPLE STREET
SOUTH BEND, INDIANA

Date:
6/19/11

Scale:
1"=60'

Drawn By:
NV

# TABLES

**Table 1**
**Well Survey Data**
**Sample Street Business Complex**
**3702 West Sample Street**
**South Bend, Indiana**

| Well Identification Number | Date Gauges | Well Diameter (in) | Depth to Water (ft below grade) | Well Total Depth (ft) | Well Screen Length (ft) | Well Top of Casing Elevation |
|---|---|---|---|---|---|---|
| **W - 1** | **5/19/2011** | 5 | 9.05 | 64 | 5 | 713.09 |
| **W - 3** | **5/19/2011** | 5 | 7.82 | 59.35 | 5 | 712.59 |
| **W - 5** | **5/18/2011** | 5 | 9.38 | 36.37 | 5 | 713.32 |
| **W - 7** | **5/18/2011** | 4 | 9.52 | 31.90 | 5 | 714.02 |
| **W - 8** | **5/18/2011** | 4 | 9.77 | 59.70 | 5 | 713.71 |
| **W - 9** | **5/19/2011** | 2 | 10.73 | 52.94 | 10 | 714.71 |
| **W - 12** | **5/19/2011** | 2 | 8.81 | 29.26 | 10 | 712.83 |
| **W - 13** | **5/19/2011** | 2 | 9.87 | 35.43 | 10 | 713.95 |
| **W - UNK - 1** | **5/18/2011** | 4 | 6.15 | 18.57 | - | - |
| **W - UNK - 2** | **5/18/2011** | 4 | 6.16 | 50.10 | - | - |

Notes: Well Elevation Survey Datum taken from
Capsule Environmental Report dated May 26, 1992

**Table 2**
**TPH and VOCs in Soil**
**Sample Street Business Complex**
**3702 West Sample Street**
**South Bend, Indiana**

| Sample Location | Date Sampled | Sample Depth (feet) | TPH (GRO) (ppm) | TPH (ERO) (ppm) | Benzene | 2-Butanone (MEK) | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Carbon Tetrachloride | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Isopropylbenzene (Cumene) | Methylene Chloride | Naphthalene | n-Propylbenzene | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,2-Dibromoethane (EDB) | 1,2-Dichloropropane | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | Trichloroethene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Vinyl Chloride | Xylenes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RISC Default Residential closure levels** | | | **120** | **230** | **34** | **-** | **-** | **-** | **-** | **66** | **17,000** | **2,300** | **2,200** | **5,600** | **24** | **58** | **400** | **680** | **13,000** | **11,000** | **23** | **700** | **36,000** | **7** | **30** | **0.34** | **30** | **58** | **12,000** | **1,900** | **57** | **2,500** | **610** | **13** | **170,000** |
| **RISC Default Industrial closure levels** | | | **1,500** | **2,300** | **350** | **-** | **-** | **-** | **-** | **290** | **220,000** | **8,900** | **3,400** | **58,000** | **150** | **42,000** | **5,800** | **14,000** | **160,000** | **42,000** | **1,800** | **170,000** | **300,000** | **110** | **300** | **9.6** | **250** | **640** | **96,000** | **280,000** | **350** | **170,000** | **68,000** | **27** | **170,000** |
| **SB - 1** | **5/11/2011** | **3' - 4'** | <17.2 | 73.1 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| | | **10 ' 12'** | 55.4 | **3,670** | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| **SB - 2** | **5/11/2011** | **6.8' - 7.8'** | <16.7 | 135 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <22 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| | | **10' - 12'** | 83.5 | **5,400** | <34 | <284 | 206 | 230 | <142 | **<142** | <142 | <142 | <142 | <142 | **<142** | **<142** | <142 | <142 | <142 | <142 | <142 | **<142** | <142 | <142 | **<142** | **<142** | **<142** | **<142** | **<142** | <142 | <142 | **<142** | 861 | 243 | **<57** | <284 |
| **SB - 3** | **5/11/2011** | **2' - 4'** | <16.3 | <22 | <5 | <11 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <22 | <5 | <5 | <5 | <5 | **<5** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <11 |
| | | **5' - 7'** | <16.5 | **455** | <5 | <11 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <25 | <5 | <5 | <5 | <5 | **<5** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <11 |
| | | **7.8' - 9.8'** | <19.0 | **600** | <6 | <13 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <21 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <3 | <13 |
| **SB - 4** | **5/12/2011** | **2' - 4'** | <15.6 | <21 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <23 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <10 |
| | | **6' - 8'** | <17.2 | <23 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| | | **14' - 16'** | <17.2 | <23 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <24 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| **SB - 5** | **5/12/2011** | **2' - 4'** | <16.7 | 120 | <6 | <12 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <24 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <12 |
| | | **6' - 8'** | <17.9 | <24 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <12 |
| | | **12' - 14'** | <17.4 | <23 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <21 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <12 |
| **SB - 6** | **5/12/2011** | **2 ' - 4'** | <15.8 | <21 | <5 | <11 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <23 | <5 | <5 | <5 | <5 | **<5** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <11 |
| | | **6' - 8'** | <17.2 | <23 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <21 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| **SB - 7** | **5/13/2011** | **2' - 4'** | <15.6 | <21 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <23 | <5 | <5 | <5 | <5 | **<5** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <10 |
| | | **6' - 8'** | <17.0 | <23 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| **SB - 8** | **5/12/2011** | **2' - 4'** | <17.6 | 139 | <6 | <12 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <12 |
| | | **6' - 8'** | <15.6 | <21 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <23 | <5 | <5 | <5 | <5 | **<5** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <10 |
| | | **14' - 16'** | <17.0 | <23 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| **SB - 9** | **5/13/2011** | **2' - 4'** | <17.0 | 35.0 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| | | **6' - 8'** | <17.0 | <23 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| **SB - 10** | **5/13/2011** | **2' - 4'** | <17.0 | <23 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <23 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |
| | | **6' - 8'** | <16.3 | 29.6 | <5 | <11 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <22 | <5 | <5 | <5 | <5 | **<5** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <11 |
| | | **12' - 14'** | <16.9 | <22 | <6 | <11 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | **<6** | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <2 | <11 |

Notes: Values presented in parts per billion (ppb) or ug/kg except TPH presented in parts per million (ppm) or mg/kg
Constituents not listed were below the laboratory detection limit
Default Closure levels based on RISC Technical Users Guide, Updated 01/31/06. Amended August 2006, May 2009 and June 2010.
**Bold cell** denotes value exceeds RISC Default Residential closure level
**Shaded cell** denotes value exceeds RISC Default Industrial closure level

**Table 3**
**Metals in Soil**
**Sample Street Business Complex**
**3702 West Sample Street**
**South Bend, Indiana**

| Sample Location | Date Sampled | Sample Depth (feet) | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Copper | Lead | Mercury | Nickel | Selenium | Silver | Thallium | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RISC Default Residential closure levels** | | | **5.4** | **3.9** | **1,600** | **63** | **7.5** | **10,000** | **920** | **81** | **2** | **950** | **5.2** | **31** | **2.8** | **10,000** |
| **RISC Default Industrial closure levels** | | | **37** | **5.8** | **10,000** | **2,300** | **77** | **10,000** | **2,900** | **230** | **32** | **2,700** | **53** | **87** | **10** | **10,000** |
| **SB - 1** | **5/11/2011** | **3' - 4'** | NA | <2 | 82 | NA | <2 | 6.4 | NA | **240** | <1 | NA | <2 | <2 | NA | NA |
| | | **10 ' 12'** | NA | <2 | 34 | NA | <2 | 5.8 | NA | 6.5 | <1 | NA | <2 | <2 | NA | NA |
| **SB - 2** | **5/11/2011** | **6.8' - 7.8'** | NA | <2 | 22 | NA | <2 | 4.0 | NA | 6.9 | <1 | NA | <2 | <2 | NA | NA |
| | | **10' - 12'** | NA | <2 | 5.9 | NA | <2 | 4.6 | NA | 3.1 | <1 | NA | <2 | <2 | NA | NA |
| **SB - 3** | **5/11/2011** | **2' - 4'** | NA | <2 | 36 | NA | <2 | 5.0 | NA | 11 | <1 | NA | <2 | <2 | NA | NA |
| | | **5' - 7'** | NA | <2 | 36 | NA | <2 | 4.0 | NA | 17 | <1 | NA | <2 | <2 | NA | NA |
| | | **7.8' - 9.8'** | NA | <2 | 30 | NA | <2 | 5.4 | NA | 20 | <1 | NA | <2 | <2 | NA | NA |
| **SB - 4** | **5/12/2011** | **2' - 4'** | <2 | <2 | NA | <1 | <2 | 7.0 | 65 | 7.9 | <1 | 5.2 | <2 | <2 | <2 | 35 |
| **SB - 5** | **5/12/2011** | **2' - 4'** | <2 | 2.3 | NA | <1 | <2 | 4.7 | 41 | 14 | <1 | 6.3 | <2 | <2 | <2 | 160 |
| **SB - 6** | **5/12/2011** | **2 ' - 4'** | <2 | <2 | NA | <1 | <2 | 3.3 | 48 | 2.4 | <1 | 4.3 | <2 | <2 | <2 | 15 |
| **SB - 7** | **5/13/2011** | **2' - 4'** | <2 | <2 | NA | <1 | <2 | 4.4 | 70 | 7.1 | <1 | 4.4 | <2 | <2 | <2 | 35 |
| **SB - 8** | **5/12/2011** | **2' - 4'** | <2 | 3.1 | NA | <1 | <2 | 13 | 65 | 4.9 | <1 | 12 | <2 | <2 | <2 | 39 |
| **SB - 9** | **5/13/2011** | **2' - 4'** | <2 | **4.5** | NA | <1 | <2 | 5.9 | 49 | 7.4 | <1 | 7.1 | <2 | <2 | <2 | 36 |
| **SB - 10** | **5/13/2011** | **2' - 4'** | <2 | 3.3 | NA | <1 | <2 | 16 | 73 | 9.4 | <1 | 6.3 | <2 | <2 | <2 | 32 |

Notes: Values presented in parts per million (ppm) or mg/kg
Constituents not listed were below the laboratory detection limit
Default Closure levels based on RISC Technical Users Guide, Updated 01/31/06. Amended August 2006 and May 2009.
**Bold cell** denotes value exceeds RISC Default Residential closure level
**Shaded cell** denotes value exceeds RISC Default Industrial closure level

**Table 4**
**VOCs in Groundwater**
**Sample Street Business Complex**
**3702 West Sample Street**
**South Bend, Indiana**

| Sample Location | Date Sampled | Benzene | Carbon Tetrachloride | 2-Butanone (MEK) | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Chloroethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Isopropylbenzene (Cumene) | Methylene Chloride | Naphthalene | n-Propylbenzene | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,2-Dibromoethane (EDB) | 1,2-Dichloropropane | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | Trichloroethene | Trichlorofluoromethane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Vinyl Chloride | Xylene (Total) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RISC Default Residential closure levels** | | **5** | **5** | **-** | **-** | **-** | **-** | **62** | **60** | **80** | **75** | **990** | **5** | **7** | **70** | **100** | **700** | **830** | **5** | **8.3** | **310** | **0.9** | **5** | **0.05** | **5** | **5** | **1,000** | **200** | **5** | **-** | **16** | **16** | **2** | **10,000** |
| **RISC Default Industrial closure levels** | | **52** | **22** | **-** | **-** | **-** | **-** | **990** | **9,200** | **310** | **120** | **10,000** | **31** | **5,100** | **1,000** | **2,000** | **10,000** | **10,000** | **380** | **2,000** | **4,100** | **14** | **50** | **1.4** | **42** | **55** | **8,200** | **29,000** | **31** | **-** | **5,100** | **5,100** | **4** | **20,000** |
| **SB - 1** | **5/11/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **SB - 2** | **5/11/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **SB - 3** | **5/11/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **SB - 4** | **5/12/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **SB - 5** | **5/12/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **SB - 6** | **5/12/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **SB - 7** | **5/13/2011** | <5 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 5.69 | <5 | <5 | <5 | <5 | <2 | <10 |
| **SB - 8** | **5/12/2011** | <5 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 17.9 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 11.8 | <5 | <5 | <5 | <5 | <2 | <10 |
| **SB - 10** | **5/13/2011** | <5 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | **8.88** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <10 |
| **W - 1** | **5/19/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **W - 3** | **5/19/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **W - 5** | **5/18/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **W - 7** | **5/18/2011** | <5 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 6.29 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <10 |
| **W - 8** | **5/18/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **W - 9** | **5/19/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **W - 12** | **5/19/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **W - 13** | **5/19/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **W - UNK - 1** | **5/18/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |
| **W - UNK - 2** | **5/18/2011** | <5 | <5 | <10 | <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 | <5 | <5 | <2 | <10 |

Notes: Values presented in parts per billion (ppb) or ug/l
Default Closure levels based on RISC Technical Users Guide, Updated 01/31/06. Amended August 2006 and May 2009.
**Bold cell** denotes value exceeds RISC Default Residential closure level
**Shaded cell** denotes value exceeds RISC Default Industrial closure level

# ATTACHMENT A

## SOIL BORING LOGS

# SB-1

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | J.R. Barnhart | Static Water Level | 13 Feet |
| Date Drilled | 5/11/2011 | Total Depth of borehole | 24 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | Gravel, clay, sand, driveway and fill material | | | | | | |
| | Poor Recovery - fine to medium sand | | | 0.8 | | 0.0 | |
| | Poor Recovery - fine to medium sand | 5 | | 0.2 | | 0.0 | |
| | Fine sand, blocky, yellow-brown, strong petroleum odor | 10 | | 1.9 | | 166.9 | |
| | Fine to medium sand, stained, wet | | | | | 7.5 | |
| | Fine to medium sand, yellow-brown, 10YR 4/3, wet Heaving Sand | 15 | | 2.7 | | 1.0 | |
| | Fine to medium sand, yellow-brown, 10YR 4/3, wet Heaving Sand | | | | | 0.0 | |
| | | | | 2.8 | | 0.3 | |
| | | 20 | | | | 0.0 | |
| | | | | 2.4 | | 0.0 | |
| | | 25 | | | | | |

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# SB-2

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | J.R. Barnhart | Static Water Level | 13 Feet |
| Date Drilled | 5/11/2011 | Total Depth of borehole | 24 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | Driveway - gravel & sand<br>Clayey soil & sand fill material | | | 0.25 | | 0.3 | |
| | Fine to medium sand, yellow-brown, 10YR 5/6,<br>Stained at 7 to 8-ft | 5 | | 1.0 | | 8.5 | |
| | Fine to medium sand, yellow-brown, 10YR 5/6,<br>Stained 10 to 12-feet, strong petroleum odor | 10 | | 2.8 | | 78.1 | |
| | Fine to medium sand grading to fine gravel at base,<br>yellow-brown, 10YR 5/6 | | | | | 0.7 | |
| | Heaving Sands - No Recovery | 15 | | 4.0 | | 0.5 | |
| | | 20 | | | | | |
| | | 25 | | | | | |

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# SB-3

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | J.R. Barnhart | Static Water Level | 13 Feet |
| Date Drilled | 5/11/2011 | Total Depth of borehole | 24 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | Fine to medium sand, yellow-brown, 10YR 5/6 | | | 1.6 | | 0.0 | |
| | Fine to medium sand, yellow-brown, 10YR 5/6, Stained at base, no odor | 5 | | 2.8 | | 0.3 | |
| | Fine sand, yellow-brown, 10YR 5/6, Stained | 10 | | 2.6 | | 6.2<br>0.1<br>0.1 | |
| | Heaving Sands - No Recovery | 15 | | | | | |
| | | 20 | | | | | |
| | | 25 | | | | | |

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# SB-4

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | Nivas R. Vijay | Static Water Level | 8 Feet |
| Date Drilled | 5/12/2011 | Total Depth of borehole | 60 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | 10YR 4/3 brown SAND, medium to coarse grained, moist, organics | | | | | 0.1 | |
| | | | | | | 0.1 | |
| | | 5 | | | | 0.2 | |
| | very wet at 6' | | | | | 0.1 | |
| | 10YR 4/2 dark grayish brown SAND w/gravel, medium to coarse grained, SATURATED at 8' | | | | | 0.1 | |
| | | 10 | | | | 0.2 | |
| | more gravel, cobbles at 12' | | | | | 0.4 | |
| | | 15 | | | | 0.8 | |
| | | | | | | 0.1 | |
| | | | | | | 0.0 | |
| | | 20 | | | | 0.0 | |
| | mottled 10YR 4/3 brown, cobbles at 22' | | | | | 0.0 | |
| | | 25 | | | | 0.0 | |
| | | | | | | | |
| | | 30 | | | | 0.0 | |
| | | | | | | | |
| | | 35 | | | | 0.0 | |
| | 10YR 6/3 pale brown at 36', very wet, gravel and cobbles | | | | | 0.0 | |
| | | 40 | | | | 0.0 | |
| | | | | | | | |
| | | 45 | | | | 0.0 | |
| | | | | | | | |
| | | 50 | | | | 0.0 | |
| | | | | | | | |
| | | 55 | | | | 0.0 | |
| | 10YR 4/1 dark gray SILTY CLAY w/gravel, very hard, firm, non-plastic, slightly moist | | | | | 0.0 | |
| | | 60 | | | | 0.0 | |
| | Bottom of Boring 60' at 12:00 | | | | | | |

# SB-5

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | Nivas R. Vijay | Static Water Level | 8 Feet |
| Date Drilled | 5/12/2011 | Total Depth of borehole | 25 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | 10YR 3/3 dark brown SILT LOAM FILL w/gravel and organics, moist | | | | | 0.0 | |
| | 10YR 4/3 brown SAND, fine to medium grained, very moist | | | | | 0.0 | |
| | | 5 | | | | 0.0 | |
| | 10YR 4/2 dark grayish brown SAND, fine to medium grained, SATURATED at 8' | | | | | 0.0 | |
| | 10YR 4/2 dark grayish brown SAND w/gravel, medium to coarse grained, saturated | | | | | 0.0 | |
| | | 10 | | | | 0.1 | |
| | gravel at 13' | | | | | 0.1 | |
| | | 15 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | 10YR 4/3 brown mottled 10YR 4/2 dark grayish brown SAND w/gravel and cobbles, medium to coarse grained, saturated | | | | | 0.0 | |
| | | 20 | | | | 0.0 | |
| | very wet at 22' | | | | | 0.0 | |
| | | 25 | | | | | |
| | Bottom of Boring 25' at 14:00 | | | | | | |



**Heartland Environmental Associates, Inc.** 3410 Mishawaka Avenue South Bend, IN 46615

# SB-6

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | Nivas R. Vijay | Static Water Level | 7.5 Feet |
| Date Drilled | 5/12/2011 | Total Depth of borehole | 24 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | 10YR 3/3 dark brown SILT LOAM FILL w/gravel and organics, moist | | | | | 0.0 | |
| | 10YR 6/3 pale brown SAND, fine to medium grained, very moist | | | | | 0.0 | |
| | 10YR 4/2 dark grayish brown SAND w/gravel, medium grained, very moist | 5 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | SATURATED at 7.5' | | | | | | |
| | 10YR 4/2 dark grayish brown SAND w/gravel, medium to coarse grained, saturated | | | | | 0.0 | |
| | | 10 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | gravel and cobbles at 14' | | | | | 0.0 | |
| | | 15 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | 20 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | Bottom of Boring 25' at 14:45 | 25 | | | | | |

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# SB-7

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | Nivas R. Vijay | Static Water Level | 8 Feet |
| Date Drilled | 5/13/2011 | Total Depth of borehole | 24 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | Asphalt | | | | | | |
| | 10YR 3/3 dark brown SILT LOAM FILL w/gravel and organics, moist | | | | | 0.0 | |
| | 10YR 4/3 brown SAND, fine to medium grained, very moist | | | | | 0.0 | |
| | | 5 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | 10YR 4/2 dark grayish brown SAND w/gravel, medium grained, SATURATED at 8' | | | | | 0.0 | |
| | | 10 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | 15 | | | | 0.0 | |
| | 10YR 4/2 dark grayish brown SAND w/gravel, medium to coarse grained, saturated | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | 20 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | Bottom of Boring 24' at 09:00 | | | | | | |
| | | 25 | | | | | |

# SB-8

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | Nivas R. Vijay | Static Water Level | 8 Feet |
| Date Drilled | 5/12/2011 | Total Depth of borehole | 62 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | Concrete | | | | | 0.0 | |
| | 10YR 3/1 dark brown SILT LOAM FILL w/gravel and organics, moist | | | | | 0.0 | |
| | 10YR 4/3 brown SAND w/gravel, medium to coarse grained, very moist | 5 | | | | 0.0 | |
| | 10YR 6/3 pale brown SAND, medium to coarse grained, very wet | | | | | 0.0 | |
| | 10YR 4/3 brown SAND w/gravel, medium to coarse grained, SATURATED at 8' | 10 | | | | 0.1 | |
| | 10YR 4/2 dark grayish brown mottled 10YR 6/3 pale brown SAND w/gravel, medium to coarse grained, saturated | | | | | 0.1 | |
| | | 15 | | | | 0.0 | |
| | | | | | | 0.1 | |
| | | 20 | | | | 0.1 | |
| | 10YR 6/3 pale brown, less mottling at 22', saturated | | | | | 0.0 | |
| | | 25 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | 30 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | 35 | | | | 0.0 | |
| | wet at 37', cobbles | | | | | 0.0 | |
| | | 40 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | 45 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | 50 | | | | 0.0 | |
| | 10YR 4/2 dark grayish brown SAND w/gravel and cobbles, medium to coarse grained, wet | | | | | 0.0 | |
| | | 55 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | 10YR 4/1 dark gray SILTY CLAY w/gravel, very hard, firm, non-plastic, slightly moist | 60 | | | | 0.0 | |
| | Bottom of Boring 62' at 16:45 | | | | | | |
| | | 65 | | | | | |

# SB-9

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | Nivas R. Vijay | Static Water Level | Feet |
| Date Drilled | 5/13/2011 | Total Depth of borehole | 9 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | Asphalt | | | | | | |
| | 10YR 3/3 dark brown SILT LOAM FILL w/gravel and organics, moist | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | 10YR 4/3 brown SAND, fine to medium grained, very moist, concrete debris | 5 | | | | 0.0 | |
| | concrete and brick debris and fill | | | | | 0.0 | |
| | Bottom of Boring 9' at 09:30 | 10 | | | | 0.0 | |

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# SB-10

| 5093 | Sample Street Business Complex | 3702 West Sample Street | South Bend, Indiana |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Contractor | Midway Services, Inc. | Drill Rig | Geoprobe |
| Driller | Mark License | Ground Elevation | Feet |
| Geologist | Nivas R. Vijay | Static Water Level | 8 Feet |
| Date Drilled | 5/13/2011 | Total Depth of borehole | 24 Feet |
| Boring Diameter | 2 Inches | Boring Method | Direct-Push |

| Graphic Log | Description | Depth | Sample | Recovery | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | Asphalt | | | | | | |
| | 10YR 3/3 dark brown SILT LOAM FILL w/gravel and organics, moist | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | 10YR 4/3 brown SAND, fine to medium grained, very moist | 5 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | 10YR 4/2 dark grayish brown SAND w/gravel, medium grained, SATURATED at 8' | 10 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | 10YR 4/2 dark grayish brown SAND w/gravel, medium to coarse grained, saturated | 15 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | 20 | | | | 0.0 | |
| | | | | | | 0.0 | |
| | Bottom of Boring 24' at 10:30 | 25 | | | | | |

# ATTACHMENT B

## LABORATORY CERTIFICATES OF ANALYSIS

**ENVision Laboratories, Inc.**
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Mr. Nivas Vijay
Heartland Environmental
3410 Mishawaka Ave.
South Bend, IN 46615

May 26, 2011

ENVision Project Number: 2011-1176
Client Project Name: UEA/5093-11-01:04

Dear Mr. Vijay,

Please find the attached analytical report for the samples received May 12, 2011. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data. Metals analyses are not included in the NELAC certification.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

David Norris

Client Services Manager
ENVision Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100454

**ENVision Laboratories, Inc.**
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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051811V

**Client Sample ID:** SB-1 3-4 **Sample Collection Date/Time:** 5/11/11 12:55
**Envision Sample Number:** 11-9314 **Sample Received Date/Time:** 5/12/11 12:42
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 115 | 115 | |
| Acrolein | < 115 | 115 | |
| Acrylonitrile | < 115 | 115 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 115 | 115 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 115 | 115 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 87% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 85% | | |
| Toluene-d8 (surrogate) | 97% | | |
| 4-bromofluorobenzene (surrogate) | 90% | | |
| Analysis Date/Time: | 05-19-11/05:59 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 87% | | |

All results reported on dry weight basis.

**ENVision Laboratories, Inc.**
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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051711G

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-1 3-4 | **Sample Collection Date/Time:** | 5/11/11 | 12:55 |
| **Envision Sample Number:** | 11-9314 | **Sample Received Date/Time:** | 5/12/11 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.2 | 17.2 | |
| 4-bromofluorobenzene (surrogate | 115% | | |
| Analysis Date/Time: | 05-18-11/09:44 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 051811E

**Client Sample ID:** SB-1 3-4
**Envision Sample Number:** 11-9314
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 12:55
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **73.1** | 23 | |
| o-Terphenyl (surrogate) | 86% | | |
| Analysis Date/Time: | 05-20-11/18:47 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B

**Client Sample ID:** SB-1 3-4
**Envision Sample Number:** 11-9314
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 12:55
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Arsenic | < 2 | 2 | |
| Barium | **82** | 2 | |
| Cadmium | < 2 | 2 | |
| Chromium | **6.4** | 2 | |
| Lead | **240** | 2 | |
| Mercury | < 1 | 1 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |

Percent Solids 87%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/12:45 | Hg Analysis Date/Time: | 05-19-11/11:50 |
| Analyst Initials: | gjd | Hg Analyst Initials: | gjd |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 0.6 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-1 3-4 | **Sample Collection Date/Time:** | 5/11/2011 | 12:55 |
| **Envision Sample Number:** | 11-9314 | **Sample Received Date/Time:** | 5/12/2011 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 13.0% | | 1684 |
| Percent Solids | 87.0% | | 1684 |
| Analysis Date: | 5/19/11 | | |
| Analyst Initials | jc | | |

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Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051811V

**Client Sample ID:** SB-1 10-12 **Sample Collection Date/Time:** 5/11/11 13:00
**Envision Sample Number:** 11-9315 **Sample Received Date/Time:** 5/12/11 12:42
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 114 | 114 | |
| Acrolein | < 114 | 114 | |
| Acrylonitrile | < 114 | 114 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 114 | 114 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 114 | 114 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 104% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 90% | | |
| Toluene-d8 (surrogate) | 106% | | |
| 4-bromofluorobenzene (surrogate) | 118% | | |
| Analysis Date/Time: | 05-19-11/07:36 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051711G

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-1 10-12 | **Sample Collection Date/Time:** | 5/11/11 | 13:00 |
| **Envision Sample Number:** | 11-9315 | **Sample Received Date/Time:** | 5/12/11 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | **55.4** | 17.0 | |
| 4-bromofluorobenzene (surrogate | 112% | | |
| Analysis Date/Time: | 05-18-11/10:03 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 051811E

**Client Sample ID:** SB-1 10-12
**Envision Sample Number:** 11-9315
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 13:00
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **3,670** | 23 | 1, 2 |
| o-Terphenyl (surrogate) | 757% | | |
| Analysis Date/Time: | 05-20-11/20:13 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B

**Client Sample ID:** SB-1 10-12
**Envision Sample Number:** 11-9315
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 13:00
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Arsenic | < 2 | 2 | |
| Barium | **34** | 2 | |
| Cadmium | < 2 | 2 | |
| Chromium | **5.8** | 2 | |
| Lead | **6.5** | 2 | |
| Mercury | < 1 | 1 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |

Percent Solids 88%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/12:56 | Hg Analysis Date/Time: | 05-19-11/11:57 |
| Analyst Initials: | gjd | Hg Analyst Initials: | gjd |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 0.6 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-1 10-12 | **Sample Collection Date/Time:** | 5/11/2011 | 13:00 |
| **Envision Sample Number:** | 11-9315 | **Sample Received Date/Time:** | 5/12/2011 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 12.0% | | 1684 |
| Percent Solids | 88.0% | | 1684 |
| Analysis Date: | 5/19/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 051511V

**Client Sample ID:** SB-1
**Envision Sample Number:** 11-9316
**Sample Matrix:** water

**Sample Collection Date/Time:** 5/11/11 13:40
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 107% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 112% | | |
| Toluene-d8 (surrogate) | 99% | | |
| 4-bromofluorobenzene (surrogate) | 96% | | |
| Analysis Date/Time: | 05-16-11/09:52 | | |
| Analyst Initials | tjg | | |

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Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051811V

**Client Sample ID:** SB-2 6.8-7.8 **Sample Collection Date/Time:** 5/11/11 14:59
**Envision Sample Number:** 11-9317 **Sample Received Date/Time:** 5/12/11 12:42
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 111 | 111 | |
| Acrolein | < 111 | 111 | |
| Acrylonitrile | < 111 | 111 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 56 | 56 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 56 | 56 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 111 | 111 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 111 | 111 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 22 | 22 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 98% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 83% | | |
| Toluene-d8 (surrogate) | 95% | | |
| 4-bromofluorobenzene (surrogate) | 89% | | |
| Analysis Date/Time: | 05-19-11/06:19 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 90% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911G

**Client Sample ID:** SB-2 6.8-7.8
**Envision Sample Number:** 11-9317
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 14:59
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 16.7 | 16.7 | |
| 4-bromofluorobenzene (surrogate | 128% | | |
| Analysis Date/Time: | 05-19-11/14:37 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 90% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 051811E

**Client Sample ID:** SB-2 6.8-7.8
**Envision Sample Number:** 11-9317
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 14:59
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **135** | 22 | |
| o-Terphenyl (surrogate) | 113% | | |
| Analysis Date/Time: | 05-20-11/20:42 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 90% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B

**Client Sample ID:** SB-2 6.8-7.8
**Envision Sample Number:** 11-9317
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 14:59
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Arsenic | < 2 | 2 | |
| Barium | **22** | 2 | |
| Cadmium | < 2 | 2 | |
| Chromium | **4.0** | 2 | |
| Lead | **6.9** | 2 | |
| Mercury | < 1 | 1 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |

Percent Solids 90%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/13:00 | Hg Analysis Date/Time: | 05-19-11/11:59 |
| Analyst Initials: | gjd | Hg Analyst Initials: | gjd |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 0.6 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-2 6.8-7.8 | **Sample Collection Date/Time:** | 5/11/2011 | 14:59 |
| **Envision Sample Number:** | 11-9317 | **Sample Received Date/Time:** | 5/12/2011 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 10.0% | | 1684 |
| Percent Solids | 90.0% | | 1684 |
| Analysis Date: | 5/19/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051811V

**Client Sample ID:** SB-2 10-12
**Envision Sample Number:** 11-9318
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 15:07
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 2,840 | 2,840 | 3 |
| Acrolein | < 2,840 | 2,840 | 3 |
| Acrylonitrile | < 2,840 | 2,840 | 3 |
| Benzene | < 34 | 142 | 3, 4 |
| Bromobenzene | < 142 | 142 | 3 |
| Bromochloromethane | < 142 | 142 | 3 |
| Bromodichloromethane | < 142 | 142 | 3 |
| Bromoform | < 142 | 142 | 3 |
| Bromomethane | < 142 | 142 | 3 |
| n-Butanol | < 1,420 | 1,420 | 3 |
| 2-Butanone (MEK) | < 284 | 284 | 3 |
| n-Butylbenzene | **206** | 142 | 3 |
| sec-Butylbenzene | **230** | 142 | 3 |
| tert-Butylbenzene | < 142 | 142 | 3 |
| Carbon Disulfide | < 142 | 142 | 3 |
| Carbon Tetrachloride | < 142 | 142 | 3 |
| Chlorobenzene | < 142 | 142 | 3 |
| Chloroethane | < 142 | 142 | 3 |
| 2-Chloroethylvinylether | < 1,420 | 1,420 | 3 |
| Chloroform | < 142 | 142 | 3 |
| Chloromethane | < 142 | 142 | 3 |
| 2-Chlorotoluene | < 142 | 142 | 3 |
| 4-Chlorotoluene | < 142 | 142 | 3 |
| 1,2-Dibromo-3-chloropropane | < 142 | 142 | 3 |
| Dibromochloromethane | < 142 | 142 | 3 |
| 1,2-Dibromoethane (EDB) | < 142 | 142 | 3 |
| Dibromomethane | < 142 | 142 | 3 |
| 1,2-Dichlorobenzene | < 142 | 142 | 3 |
| 1,3-Dichlorobenzene | < 142 | 142 | 3 |
| 1,4-Dichlorobenzene | < 142 | 142 | 3 |
| trans-1,4-Dichloro-2-butene | < 2,840 | 2,840 | 3 |
| Dichlorodifluoromethane | < 142 | 142 | 3 |
| 1,1-Dichloroethane | < 142 | 142 | 3 |
| 1,2-Dichloroethane | < 142 | 142 | 3 |
| 1,1-Dichloroethene | < 142 | 142 | 3 |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 142 | 142 | 3 |
| trans-1,2-Dichloroethene | < 142 | 142 | 3 |
| 1,2-Dichloropropane | < 142 | 142 | 3 |
| 1,3-Dichloropropane | < 142 | 142 | 3 |
| 2,2-Dichloropropane | < 142 | 142 | 3 |
| 1,1-Dichloropropene | < 142 | 142 | 3 |
| cis-1,3-Dichloropropene | < 142 | 142 | 3 |
| trans-1,3-Dichloropropene | < 142 | 142 | 3 |
| Ethylbenzene | < 142 | 142 | 3 |
| Ethyl methacrylate | < 2,840 | 2,840 | 3 |
| Hexachloro-1,3-butadiene | < 142 | 142 | 3 |
| n-Hexane | < 284 | 284 | 3 |
| 2-Hexanone | < 284 | 284 | 3 |
| Iodomethane | < 284 | 284 | 3 |
| Isopropylbenzene (Cumene) | < 142 | 142 | 3 |
| p-Isopropyltoluene | **322** | 142 | 3 |
| Methylene chloride | < 568 | 568 | 3 |
| 4-Methyl-2-pentanone (MIBK) | < 284 | 284 | 3 |
| Methyl-tert-butyl-ether | < 142 | 142 | 3 |
| Naphthalene | < 142 | 142 | 3 |
| n-Propylbenzene | < 142 | 142 | 3 |
| Styrene | < 142 | 142 | 3 |
| 1,1,1,2-Tetrachloroethane | < 142 | 142 | 3 |
| 1,1,2,2-Tetrachloroethane | < 142 | 142 | 3 |
| Tetrachloroethene | < 142 | 142 | 3 |
| Toluene | < 142 | 142 | 3 |
| 1,2,3-Trichlorobenzene | < 142 | 142 | 3 |
| 1,2,4-Trichlorobenzene | < 142 | 142 | 3 |
| 1,1,1-Trichloroethane | < 142 | 142 | 3 |
| 1,1,2-Trichloroethane | < 142 | 142 | 3 |
| Trichloroethene | < 142 | 142 | 3 |
| Trichlorofluoromethane | < 142 | 142 | 3 |
| 1,2,3-Trichloropropane | < 142 | 142 | 3 |
| 1,2,4-Trimethylbenzene | **861** | 142 | 3 |
| 1,3,5-Trimethylbenzene | **243** | 142 | 3 |
| Vinyl acetate | < 284 | 284 | 3 |
| Vinyl chloride | < 57 | 57 | 3 |
| Xylene, M&P | < 142 | 142 | 3 |
| Xylene, 0rtho | < 142 | 142 | 3 |
| Xylene, Total | < 284 | 284 | 3 |
| Dibromofluoromethane (surrogate) | 107% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 111% | | |
| Toluene-d8 (surrogate) | 98% | | |
| 4-bromofluorobenzene (surrogate) | 116% | | |
| Analysis Date/Time: | 05-19-11/07:55 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911G

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-2 10-12 | **Sample Collection Date/Time:** | 5/11/11 | 15:07 |
| **Envision Sample Number:** | 11-9318 | **Sample Received Date/Time:** | 5/12/11 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | **83.5** | 17.0 | |
| 4-bromofluorobenzene (surrogate | 92% | | |
| Analysis Date/Time: | 05-19-11/14:56 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 051811E

**Client Sample ID:** SB-2 10-12
**Envision Sample Number:** 11-9318
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 15:07
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **5,400** | 23 | 1, 2 |
| o-Terphenyl (surrogate) | 1654% | | |
| Analysis Date/Time: | 05-20-11/21:11 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B

**Client Sample ID:** SB-2 10-12
**Envision Sample Number:** 11-9318
**Sample Matrix:** soil
**Sample Collection Date/Time:** 5/11/11 15:07
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Arsenic | < 2 | 2 | |
| Barium | **5.9** | 2 | |
| Cadmium | < 2 | 2 | |
| Chromium | **4.6** | 2 | |
| Lead | **3.1** | 2 | |
| Mercury | < 1 | 1 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |

Percent Solids 88%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/13:04 | Hg Analysis Date/Time: | 05-19-11/12:01 |
| Analyst Initials: | gjd | Hg Analyst Initials: | gjd |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 0.6 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-2 10-12 | **Sample Collection Date/Time:** | 5/11/2011 | 15:07 |
| **Envision Sample Number:** | 11-9318 | **Sample Received Date/Time:** | 5/12/2011 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 12.0% | | 1684 |
| Percent Solids | 88.0% | | 1684 |
| Analysis Date: | 5/19/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 051511V

**Client Sample ID:** SB-2
**Envision Sample Number:** 11-9319
**Sample Matrix:** water

**Sample Collection Date/Time:** 5/11/11 15:30
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 105% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 113% | | |
| Toluene-d8 (surrogate) | 98% | | |
| 4-bromofluorobenzene (surrogate) | 94% | | |
| Analysis Date/Time: | 05-16-11/10:20 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051811V

**Client Sample ID:** SB-3 2-4 **Sample Collection Date/Time:** 5/11/11 16:15
**Envision Sample Number:** 11-9320 **Sample Received Date/Time:** 5/12/11 12:42
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 109 | 109 | |
| Acrolein | < 109 | 109 | |
| Acrylonitrile | < 109 | 109 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 54 | 54 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 54 | 54 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 109 | 109 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 109 | 109 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 22 | 22 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 100% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 86% | | |
| Toluene-d8 (surrogate) | 98% | | |
| 4-bromofluorobenzene (surrogate) | 88% | | |
| Analysis Date/Time: | 05-19-11/06:38 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 92% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911G

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-3 2-4 | **Sample Collection Date/Time:** | 5/11/11 | 16:15 |
| **Envision Sample Number:** | 11-9320 | **Sample Received Date/Time:** | 5/12/11 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 16.3 | 16.3 | |
| 4-bromofluorobenzene (surrogate | 127% | | |
| Analysis Date/Time: | 05-19-11/15:16 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 92% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 051811E

**Client Sample ID:** SB-3 2-4
**Envision Sample Number:** 11-9320
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 16:15
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 22 | 22 | |
| o-Terphenyl (surrogate) | 68% | | |
| Analysis Date/Time: | 05-20-11/21:40 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 92% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B

**Client Sample ID:** SB-3 2-4
**Envision Sample Number:** 11-9320
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 16:15
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Arsenic | < 2 | 2 | |
| Barium | **36** | 2 | |
| Cadmium | < 2 | 2 | |
| Chromium | **5.0** | 2 | |
| Lead | **11** | 2 | |
| Mercury | < 1 | 1 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |

Percent Solids 92%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/13:08 | Hg Analysis Date/Time: | 05-19-11/12:03 |
| Analyst Initials: | gjd | Hg Analyst Initials: | gjd |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 0.6 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-3 2-4 | **Sample Collection Date/Time:** | 5/11/2011 | 16:15 |
| **Envision Sample Number:** | 11-9320 | **Sample Received Date/Time:** | 5/12/2011 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 8.0% | | 1684 |
| Percent Solids | 92.0% | | 1684 |
| Analysis Date: | 5/19/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051811V

**Client Sample ID:** SB-3 5-7 **Sample Collection Date/Time:** 5/11/11 16:22
**Envision Sample Number:** 11-9321 **Sample Received Date/Time:** 5/12/11 12:42
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 110 | 110 | |
| Acrolein | < 110 | 110 | |
| Acrylonitrile | < 110 | 110 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 55 | 55 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 55 | 55 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 110 | 110 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 110 | 110 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 22 | 22 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 92% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 85% | | |
| Toluene-d8 (surrogate) | 89% | | |
| 4-bromofluorobenzene (surrogate) | 90% | | |
| Analysis Date/Time: | 05-19-11/06:57 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 91% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911G

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-3 5-7 | **Sample Collection Date/Time:** | 5/11/11 | 16:22 |
| **Envision Sample Number:** | 11-9321 | **Sample Received Date/Time:** | 5/12/11 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 16.5 | 16.5 | |
| 4-bromofluorobenzene (surrogate | 121% | | |
| Analysis Date/Time: | 05-19-11/15:35 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 91% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 051811E

**Client Sample ID:** SB-3 5-7
**Envision Sample Number:** 11-9321
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 16:22
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **455** | 22 | 1 |
| o-Terphenyl (surrogate) | 222% | | |
| Analysis Date/Time: | 05-20-11/22:08 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 91% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B

**Client Sample ID:** SB-3 5-7
**Envision Sample Number:** 11-9321
**Sample Matrix:** soil
**Sample Collection Date/Time:** 5/11/11 16:22
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Arsenic | < 2 | 2 | |
| Barium | **36** | 2 | |
| Cadmium | < 2 | 2 | |
| Chromium | **4.0** | 2 | |
| Lead | **17** | 2 | |
| Mercury | < 1 | 1 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |

Percent Solids 91%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/13:12 | Hg Analysis Date/Time: | 05-19-11/12:05 |
| Analyst Initials: | gjd | Hg Analyst Initials: | gjd |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 0.6 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-3 5-7 | **Sample Collection Date/Time:** | 5/11/2011 | 16:22 |
| **Envision Sample Number:** | 11-9321 | **Sample Received Date/Time:** | 5/12/2011 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 9.0% | | 1684 |
| Percent Solids | 91.0% | | 1684 |
| Analysis Date: | 5/19/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051811V

**Client Sample ID:** SB-3 7.8-9.8 **Sample Collection Date/Time:** 5/11/11 16:35
**Envision Sample Number:** 11-9322 **Sample Received Date/Time:** 5/12/11 12:42
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 127 | 127 | |
| Acrolein | < 127 | 127 | |
| Acrylonitrile | < 127 | 127 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 63 | 63 | |
| 2-Butanone (MEK) | < 13 | 13 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 63 | 63 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 127 | 127 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 127 | 127 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 13 | 13 | |
| 2-Hexanone | < 13 | 13 | |
| Iodomethane | < 13 | 13 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 25 | 25 | |
| 4-Methyl-2-pentanone (MIBK) | < 13 | 13 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 13 | 13 | |
| Vinyl chloride | < 3 | 3 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 13 | 13 | |
| Dibromofluoromethane (surrogate) | 103% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 88% | | |
| Toluene-d8 (surrogate) | 107% | | |
| 4-bromofluorobenzene (surrogate) | 94% | | |
| Analysis Date/Time: | 05-19-11/07:16 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 79% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911G

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-3 7.8-9.8 | **Sample Collection Date/Time:** | 5/11/11 | 16:35 |
| **Envision Sample Number:** | 11-9322 | **Sample Received Date/Time:** | 5/12/11 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 19.0 | 19.0 | |
| 4-bromofluorobenzene (surrogate | 116% | | |
| Analysis Date/Time: | 05-19-11/15:54 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 79% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 051811E

**Client Sample ID:** SB-3 7.8-9.8
**Envision Sample Number:** 11-9322
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 16:35
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **600** | 25 | 1 |
| o-Terphenyl (surrogate) | 284% | | |
| Analysis Date/Time: | 05-20-11/22:37 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 79% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B

**Client Sample ID:** SB-3 7.8-9.8
**Envision Sample Number:** 11-9322
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/11/11 16:35
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Arsenic | < 2 | 3 | |
| Barium | **30** | 3 | |
| Cadmium | < 2 | 3 | |
| Chromium | **5.4** | 3 | |
| Lead | **20** | 3 | |
| Mercury | < 1 | 1 | |
| Selenium | < 2 | 3 | |
| Silver | < 2 | 3 | |

Percent Solids 79%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/13:16 | Hg Analysis Date/Time: | 05-19-11/12:08 |
| Analyst Initials: | gjd | Hg Analyst Initials: | gjd |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 0.6 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-3 7.8-9.8 | **Sample Collection Date/Time:** | 5/11/2011 | 16:35 |
| **Envision Sample Number:** | 11-9322 | **Sample Received Date/Time:** | 5/12/2011 | 12:42 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 21.0% | | 1684 |
| Percent Solids | 79.0% | | 1684 |
| Analysis Date: | 5/19/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA 5093-11-01:04

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1176

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 051511V

**Client Sample ID:** SB-3
**Envision Sample Number:** 11-9323
**Sample Matrix:** water

**Sample Collection Date/Time:** 5/11/11 16:45
**Sample Received Date/Time:** 5/12/11 12:42

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 104% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 106% | | |
| Toluene-d8 (surrogate) | 99% | | |
| 4-bromofluorobenzene (surrogate) | 92% | | |
| Analysis Date/Time: | 05-16-11/10:48 | | |
| Analyst Initials | tjg | | |

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# 8260 Quality Control Data

**ENVision Batch Number:** 051811VS

| Method Blank (MB): | MB Results (ug/kg) | Rep Lim (ug/kg) | Flag |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |

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***8260 QC Continued…***

| Method Blank (MB): | MB Results (ug/kg) | Rep Lim (ug/kg) | Flag |
|---|---|---|---|
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| 2-Hexanone | < 10 | 10 | |
| n-Hexane | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylenes, Total | <10 | 10 | |
| Dibromofluoromethane (surrogate) | 102% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 85% | | |
| Toluene-d8 (surrogate) | 98% | | |
| 4-bromofluorobenzene (surrogate) | 84% | | |
| Analysis Date/Time: | 05-19-11/01:31 | | |
| Analyst Initials | tjg | | |

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***8260 QC Continued…***

| Laboratory Control Standard (LCS): | LCS Results (ug/kg) | LCS Conc(ug/kg) | % Rec | Flag |
|---|---|---|---|---|
| Vinyl Chloride | 57.5 | 50 | 115% | |
| 1,1-Dichloroethene | 45.6 | 50 | 91% | |
| trans-1,2-Dichloroethene | 51.9 | 50 | 104% | |
| Methyl-tert-butyl ether | 42.7 | 50 | 85% | |
| 1,1-dichloroethane | 56.1 | 50 | 112% | |
| cis-1,2-Dichloroethene | 55.1 | 50 | 110% | |
| Chloroform | 51.9 | 50 | 104% | |
| 1,1,1-Trichloroethane | 44.3 | 50 | 89% | |
| Benzene | 56.5 | 50 | 113% | |
| Trichloroethene | 54.4 | 50 | 109% | |
| Toluene | 57.1 | 50 | 114% | |
| 1,1,1,2-Tetrachloroethane | 51.7 | 50 | 103% | |
| Chlorobenzene | 56.7 | 50 | 113% | |
| Ethylbenzene | 53.3 | 50 | 107% | |
| O-Xylene | 53.1 | 50 | 106% | |
| N-propylbenzene | 56.0 | 50 | 112% | |
| Dibromofluoromethane (surrogate) | 95% | | | |
| 1,2-Dichloroethane-d4 (surrogate) | 93% | | | |
| Toluene-d8 (surrogate) | 94% | | | |
| 4-bromofluorobenzene (surrogate) | 109% | | | |
| Analysis Date/Time: | 05-19-11/01:12 | | | |
| Analyst Initials | tjg | | | |

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# 8015 TPH-Gasoline Quality Control Data

**ENVision Batch Number:** 051711GS

| Method Blank (MB): | MB Results (mg/kg) | Rep Lim (mg/kg) | Flag |
|---|---|---|---|
| TPH-Gasoline | < 15 | 15 | |
| 4-bromofluorobenzene (surrogate) | 114% | | |
| Analysis Date/Time: | 05/17/11/21:47 | | |
| Analyst Initials: | tjg | | |

| LCS/LCSD | LCS Results (mg/kg) | LCS/LCSD Conc. (mg/kg) | LCSD Result (mg/kg) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| TPH-Gasoline | 9.97 | 10 | 10.4 | 100% | 104% | 4.22 | |
| 4-bromofluorobenzene (surrogate) | 106% | | 107% | | | | |
| Analysis Date/Time: | 05/18/11/05:31 | | 05/18/11/22:06 | | | | |
| Analyst Initials | tjg | | tjg | | | | |

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# 8015 TPH-Gasoline Quality Control Data

**ENVision Batch Number:** 051911GS

| Method Blank (MB): | MB Results (mg/kg) | Rep Lim (mg/kg) | Flag |
|---|---|---|---|
| TPH-Gasoline | < 15 | 15 | |
| 4-bromofluorobenzene (surrogate) | 119% | | |
| Analysis Date/Time: | 05-19-11/13:58 | | |
| Analyst Initials: | tjg | | |

| Laboratory Control Standard (LCS): | LCS Results (mg/kg) | LCS Conc (mg/kg) | % Rec | Flag |
|---|---|---|---|---|
| TPH-Gasoline | 10.3 | 10 | 103 | |
| 4-bromofluorobenzene (surrogate) | 100% | | | |
| Analysis Date/Time: | 05-19-11/14:17 | | | |
| Analyst Initials: | tjg | | | |

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## 8015 TPH-Extended Range Quality Control Data

**ENVision Batch Number:** 051811DS

| Method Blank (MB): | MB Results (mg/kg) | Reporting Limit (mg/kg) | Flag |
|---|---|---|---|
| TPH-Extended Range | < 10 | 10 | |
| o-Terphenyl (surrogate) | 63% | | |
| Analysis Date/Time: | 05-20-11/17:20 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |

| LCS/LCSD | LCS Result (mg/kg) | LCS/LCSD Conc. (mg/kg) | LCSD Result (mg/kg) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| TPH-Extended Range | 76.64 | 100 | 76.68 | 76.6% | 76.7% | 0.1% | |
| o-Terphenyl (surrogate) | 74% | | 74% | | | | |
| Analysis Date/Time: | 05-20-11/17:49 | | 05-20-11/18:18 | | | | |
| Analyst Initials: | LLL | | LLL | | | | |
| Date Extracted: | 5/18/2011 | | 5/18/2011 | | | | |
| Initial Sample Weight: | 30 g | | 30 g | | | | |
| Final Volume: | 3.0 mL | | 3.0 mL | | | | |

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# 6010B/7471A Metals Quality Control Data

**ENVision Batch Number:** 051911icp/051911hgs

| Method Blank (MB): | MB Results (mg/kg) | Rep Lim (mg/kg) | Flag |
|---|---|---|---|
| Arsenic | < 2 | 2 | |
| Barium | < 2 | 2 | |
| Cadmium | < 2 | 2 | |
| Chromium | < 2 | 2 | |
| Lead | < 2 | 2 | |
| Mercury | < 1 | 1 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Analysis Date/Time: | 05-19-11/10:21/05-19-11/11:27 | | |
| Analyst Initials: | gjd | | |

| Laboratory Control Standard: | LCS Results(ppm) | LCS Conc(ppm) | % Rec | Flag |
|---|---|---|---|---|
| Arsenic | 0.48 | 0.50 | 96% | |
| Barium | 0.51 | 0.50 | 102% | |
| Cadmium | 0.53 | 0.50 | 106% | |
| Chromium | 0.45 | 0.50 | 90% | |
| Lead | 0.54 | 0.50 | 108% | |
| Mercury | 0.0041 | 0.005 | 82% | |
| Selenium | 0.61 | 0.50 | 122% | |
| Silver | 0.51 | 0.50 | 102% | |
| Analysis Date/Time: | 05-19-11/10:36/05-19-11/11:31 | | | |
| Analyst Initials: | gjd | | | |

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# 8260 Quality Control Data

**ENVision Batch Number:** 051511VW

| Method Blank (MB): | MB Results (ug/L) | Rep Lim (ug/L) | Flag |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |

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***8260 QC Continued…***

| Method Blank (MB): | MB Results (ug/L) | Rep Lim (ug/L) |
|---|---|---|
| Hexachloro-1,3-butadiene | < 5 | 5 |
| 2-Hexanone | < 10 | 10 |
| n-Hexane | < 10 | 10 |
| Iodomethane | < 10 | 10 |
| Isopropylbenzene (Cumene) | < 5 | 5 |
| p-Isopropyltoluene | < 5 | 5 |
| Methylene chloride | < 5 | 5 |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 |
| Methyl-tert-butyl-ether | < 5 | 5 |
| Naphthalene | < 5 | 5 |
| n-Propylbenzene | < 5 | 5 |
| Styrene | < 5 | 5 |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 |
| Tetrachloroethene | < 5 | 5 |
| Toluene | < 5 | 5 |
| 1,2,3-Trichlorobenzene | < 5 | 5 |
| 1,2,4-Trichlorobenzene | < 5 | 5 |
| 1,1,1-Trichloroethane | < 5 | 5 |
| 1,1,2-Trichloroethane | < 5 | 5 |
| Trichloroethene | < 5 | 5 |
| Trichlorofluoromethane | < 5 | 5 |
| 1,2,3-Trichloropropane | < 5 | 5 |
| 1,2,4-Trimethylbenzene | < 5 | 5 |
| 1,3,5-Trimethylbenzene | < 5 | 5 |
| Vinyl acetate | < 10 | 10 |
| Vinyl chloride | < 2 | 2 |
| Xylene, M&P | < 5 | 5 |
| Xylene, 0rtho | < 5 | 5 |
| Xylene (total) | < 10 | 10 |
| Dibromofluoromethane (surrogate) | 85% | |
| 1,2-Dichloroethane-d4 (surrogate) | 86% | |
| Toluene-d8 (surrogate) | 87% | |
| 4-bromofluorobenzene (surrogate) | 81% | |
| Analysis Date/Time: | 05-16-11/00:12 | |
| Analyst Initials | tjg | |

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***8260 QC Continued…***

| Laboratory Control Standard (LCS): | LCS Results (ug/L) | LCS Conc(ug/L) | % Rec | Flag |
|---|---|---|---|---|
| Vinyl Chloride | 45.4 | 50 | 91% | |
| 1,1-Dichloroethene | 44.8 | 50 | 90% | |
| trans-1,2-Dichloroethene | 48.2 | 50 | 96% | |
| Methyl-tert-butyl-ether | 44.7 | 50 | 89% | |
| 1,1-Dichloroethane | 48.7 | 50 | 97% | |
| cis-1,2-Dichloroethene | 45.9 | 50 | 92% | |
| Chloroform | 47.2 | 50 | 94% | |
| 1,1,1-Trichloroethane | 47.5 | 50 | 95% | |
| Benzene | 47.0 | 50 | 94% | |
| Trichloroethene | 49.1 | 50 | 98% | |
| Toluene | 46.0 | 50 | 92% | |
| 1,1,1,2-Tetracholorethane | 48.5 | 50 | 97% | |
| Chlorobenzene | 47.1 | 50 | 94% | |
| Ethylbenzene | 48.8 | 50 | 98% | |
| o-Xylene | 46.8 | 50 | 94% | |
| N-propylbenzene | 50.1 | 50 | 100% | |
| Dibromofluoromethane (surrogate) | 87% | | | |
| 1,2-Dichloroethane-d4 (surrogate) | 85% | | | |
| Toluene-d8 (surrogate) | 88% | | | |
| 4-bromofluorobenzene (surrogate) | 89% | | | |
| Analysis Date/Time: | 05-15-11/23:44 | | | |
| Analyst Initials | tjg | | | |

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| Flag Number | Comments |
|---|---|
| 1 | Surrogate recovery is biased high due to matrix interference. LLL 05-25-11 |
| 2 | Reported value is estimated due to linear range exceedence. LLL 05-25-11 |
| 3 | Reported value is from a 25x dilution. GJD 05-26-11 |
| 4 | Reported value is below the reporting limit, but above the MDL. GJD 05-26-11 |

Envision Laboratories, Inc.

# CHAIN-OF-CUSTODY / Analytical Request Document

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

2011-1176



**Section A** — **Required** Client Information:

| | |
|---|---|
| Company: | Heartland Environmental Assoc. |
| Address: | 3410 Mishawaka Ave. |
| | South Bend, IN 46615 |
| Email To: | bsima@heartlandenv.com |
| Phone: (574) 289-1191 | Fax: (574) 289-7480 |
| Requested Due Date/TAT: | Standard |

**Section B** — **Required** Project Information:

| | |
|---|---|
| Report To: | (Same) |
| Copy To: | |
| Purchase Order No.: | |
| Project Name: | UEA |
| Project Number: | 5093-11-01:04 |

**Section C** — Invoice Information:

| | |
|---|---|
| Attention: | (Same) |
| Company Name: | |
| Address: | |
| Pace Quote Reference: | |
| Pace Project Manager: | |
| Pace Profile #: | |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

**Section D** — **Required** Client Information

**SAMPLE ID**
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

**Valid Matrix Codes**

| MATRIX | CODE |
|---|---|
| DRINKING WATER | DW |
| WATER | WT |
| WASTE WATER | WW |
| PRODUCT | P |
| SOIL/SOLID | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| OTHER | OT |
| TISSUE | TS |

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Y/N | Analysis Test: VOCs 8260 | TPH GRO 8015 | TPH ERO 8015 | RCRA Metals | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SB-1 3-4 | SL | G | | | 05/11/11 | 12:55 | | 6 | 2 | | | | | | 1 | 3 | | X | X | X | X | | 11-9314 |
| 2 | SB-1 10-12 | SL | G | | | 05/11/11 | 13:00 | | 6 | 2 | | | | | | 1 | 3 | | X | X | X | X | | 9315 |
| 3 | SB-1 | WT | G | | | 05/11/11 | 13:40 | | 2 | | | | 2 | | | | | | X | | | | | 9316 |
| 4 | SB-2 6.8 - 7.8 | SL | G | | | 05/11/11 | 14:59 | | 6 | 2 | | | | | | 1 | 3 | | X | X | X | X | | 9317 |
| 5 | SB-2 10-12 | SL | G | | | 05/11/11 | 15:07 | | 6 | 2 | | | | | | 1 | 3 | | X | X | X | X | | 9318 |
| 6 | SB-2 | WT | G | | | 05/11/11 | 15:30 | | 2 | | | | 2 | | | | | | X | | | | | 9319 |
| 7 | SB-3 2-4 | SL | G | | | 05/11/11 | 16:15 | | 6 | 2 | | | | | | 1 | 3 | | X | X | X | X | | 9320 |
| 8 | SB-3 5-7 | SL | G | | | 05/11/11 | 16:22 | | 6 | 2 | | | | | | 1 | 3 | | X | X | X | X | | 9321 |
| 9 | SB-3 7.8-9.8 | SL | G | | | 05/11/11 | 16:35 | | 6 | 2 | | | | | | 1 | 3 | | X | X | X | X | | 9322 |
| 10 | SB-3 | WT | G | | | 05/11/11 | 16:45 | | | | | | | | | | | | X | | | | | 9323 |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | John R Barnhart Heartland Environmental | 5/11/11 | | Ted Book ENVISION | 5/12/11 | 1242 | 3 | Y | Y | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: John Barnhart

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 5/11/11

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Mr. Nivas Vijay
Heartland Environmental
3410 Mishawaka Ave.
South Bend, IN 46615

May 27, 2011

ENVision Project Number: 2011-1197
Client Project Name: UEA-Sample Street

Dear Mr. Vijay,

Please find the attached analytical report for the samples received May 14, 2011. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data. Metals analyses are not included in the NELAC certification.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

David Norris

Client Services Manager
ENVision Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100454

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-4 (2-4)
**Envision Sample Number:** 11-9503
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 9:40
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 104 | 104 | |
| Acrolein | < 104 | 104 | |
| Acrylonitrile | < 104 | 104 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 52 | 52 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 52 | 52 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 104 | 104 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 104 | 104 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 21 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene, Total | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 93% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 90% | | |
| Toluene-d8 (surrogate) | 85% | | |
| 4-bromofluorobenzene (surrogate) | 88% | | |
| Analysis Date/Time: | 5-20-11/04:48 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 96% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-4 (2-4) | **Sample Collection Date/Time:** | 5/12/11 | 9:40 |
| **Envision Sample Number:** | 11-9503 | **Sample Received Date/Time:** | 5/13/11 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 15.6 | 15.6 | |
| 4-bromofluorobenzene (surrogate | 114% | | |
| Analysis Date/Time: | 5-20-11/01:53 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 96% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-4 (2-4)
**Envision Sample Number:** 11-9503
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 9:40
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 21 | 21 | |
| o-Terphenyl (surrogate) | 64% | | |
| Analysis Date/Time: | 05-21-11/13:01 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 96% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B
**Analytical Batch:**

**Client Sample ID:** SB-4 (2-4)
**Envision Sample Number:** 11-9503
**Sample Matrix:** soil
**Sample Collection Date/Time:** 5/12/11 9:40
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Antimony | < 2 | 2 | |
| Arsenic | < 2 | 2 | |
| Beryllium | < 1 | 1 | |
| Cadmium | < 2 | 2 | |
| Chromium | **7.0** | 2 | |
| Copper | **65** | 2 | |
| Lead | **7.9** | 2 | |
| Mercury | < 1 | 1 | |
| Nickel | **5.2** | 2 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Thallium | < 2 | 2 | |
| Zinc | **35** | 2 | |

Percent Solids 96%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/10:55 | Hg Analysis Date/Time: | 05-19-11/12:16 |
| Analyst Initials: | LLL | Hg Analyst Initials: | LLL |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 1.0 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-4 (2-4) | **Sample Collection Date/Time:** | 5/12/2011 | 9:40 |
| **Envision Sample Number:** | 11-9503 | **Sample Received Date/Time:** | 5/13/2011 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 4.0% | | 1684 |
| Percent Solids | 96.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-4 (6-8) **Sample Collection Date/Time:** 5/12/11 9:50
**Envision Sample Number:** 11-9504 **Sample Received Date/Time:** 5/13/11 8:50
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 115 | 115 | |
| Acrolein | < 115 | 115 | |
| Acrylonitrile | < 115 | 115 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 115 | 115 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 115 | 115 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 85% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 87% | | |
| Toluene-d8 (surrogate) | 91% | | |
| 4-bromofluorobenzene (surrogate) | 89% | | |
| Analysis Date/Time: | 5-20-11/05:07 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-4 (6-8) | **Sample Collection Date/Time:** | 5/12/11 | 9:50 |
| **Envision Sample Number:** | 11-9504 | **Sample Received Date/Time:** | 5/13/11 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.2 | 17.2 | |
| 4-bromofluorobenzene (surrogate | 125% | | |
| Analysis Date/Time: | 5-20-11/02:13 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-4 (6-8)
**Envision Sample Number:** 11-9504
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 9:50
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 23 | 23 | |
| o-Terphenyl (surrogate) | 71% | | |
| Analysis Date/Time: | 05-21-11/13:29 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-4 (6-8) | **Sample Collection Date/Time:** | 5/12/2011 | 9:50 |
| **Envision Sample Number:** | 11-9504 | **Sample Received Date/Time:** | 5/13/2011 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 13.0% | | 1684 |
| Percent Solids | 87.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-4 (14-16)
**Envision Sample Number:** 11-9505
**Sample Matrix:** soil
**Sample Collection Date/Time:** 5/12/11 10:20
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 115 | 115 | |
| Acrolein | < 115 | 115 | |
| Acrylonitrile | < 115 | 115 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 115 | 115 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 115 | 115 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 87% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 92% | | |
| Toluene-d8 (surrogate) | 92% | | |
| 4-bromofluorobenzene (surrogate) | 94% | | |
| Analysis Date/Time: | 5-20-11/05:27 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-4 (14-16) | **Sample Collection Date/Time:** | 5/12/11 | 10:20 |
| **Envision Sample Number:** | 11-9505 | **Sample Received Date/Time:** | 5/13/11 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.2 | 17.2 | |
| 4-bromofluorobenzene (surrogate | 124% | | |
| Analysis Date/Time: | 5-20-11/02:32 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-4 (14-16)
**Envision Sample Number:** 11-9505
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 10:20
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 23 | 23 | |
| o-Terphenyl (surrogate) | 67% | | |
| Analysis Date/Time: | 05-21-11/13:58 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-4 (14-16) | **Sample Collection Date/Time:** | 5/12/2011 | 10:20 |
| **Envision Sample Number:** | 11-9505 | **Sample Received Date/Time:** | 5/13/2011 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 13.0% | | 1684 |
| Percent Solids | 87.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 051911VW

**Client Sample ID:** SB-4 **Sample Collection Date/Time** 5/12/11 10:30
**Envision Sample Number:** 11-9506 **Sample Received Date/Time:** 5/13/11 8:50
**Sample Matrix:** water

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 108% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 109% | | |
| Toluene-d8 (surrogate) | 101% | | |
| 4-bromofluorobenzene (surrogate) | 94% | | |
| Analysis Date/Time: | 5-19-11/18:44 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-5 (2-4)
**Envision Sample Number:** 11-9507
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 13:10
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 111 | 111 | |
| Acrolein | < 111 | 111 | |
| Acrylonitrile | < 111 | 111 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 56 | 56 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 56 | 56 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 111 | 111 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 111 | 111 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 22 | 22 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 91% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 93% | | |
| Toluene-d8 (surrogate) | 91% | | |
| 4-bromofluorobenzene (surrogate) | 95% | | |
| Analysis Date/Time: | 5-20-11/05:46 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 90% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-5 (2-4) | **Sample Collection Date/Time:** | 5/12/11 | 13:10 |
| **Envision Sample Number:** | 11-9507 | **Sample Received Date/Time:** | 5/13/11 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 16.7 | 16.7 | |
| 4-bromofluorobenzene (surrogate | 108% | | |
| Analysis Date/Time: | 5-20-11/02:51 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 90% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-5 (2-4)
**Envision Sample Number:** 11-9507
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 13:10
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **120** | 22 | |
| o-Terphenyl (surrogate) | 124% | | |
| Analysis Date/Time: | 05-21-11/14:26 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 90% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B
**Analytical Batch:**

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-5 (2-4) | **Sample Collection Date/Time:** | 5/12/11 | 13:10 |
| **Envision Sample Number:** | 11-9507 | **Sample Received Date/Time:** | 5/13/11 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Antimony | < 2 | 2 | |
| Arsenic | **2.3** | 2 | |
| Beryllium | < 1 | 1 | |
| Cadmium | < 2 | 2 | |
| Chromium | **4.7** | 2 | |
| Copper | **41** | 2 | |
| Lead | **14** | 2 | |
| Mercury | < 1 | 1 | |
| Nickel | **6.3** | 2 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Thallium | < 2 | 2 | |
| Zinc | **160** | 2 | |
| | | | |
| Percent Solids | 90% | | |

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/10:59 | Hg Analysis Date/Time: | 05-19-11/12:20 |
| Analyst Initials: | LLL | Hg Analyst Initials: | LLL |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 1.0 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-5 (2-4) | **Sample Collection Date/Time:** | 5/12/2011 | 13:10 |
| **Envision Sample Number:** | 11-9507 | **Sample Received Date/Time:** | 5/13/2011 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 10.0% | | 1684 |
| Percent Solids | 90.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-5 (6-8) **Sample Collection Date/Time:** 5/12/11 13:15
**Envision Sample Number:** 11-9508 **Sample Received Date/Time:** 5/13/11 8:50
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 119 | 119 | |
| Acrolein | < 119 | 119 | |
| Acrylonitrile | < 119 | 119 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 60 | 60 | |
| 2-Butanone (MEK) | < 12 | 12 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 60 | 60 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 119 | 119 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 119 | 119 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 12 | 12 | |
| 2-Hexanone | < 12 | 12 | |
| Iodomethane | < 12 | 12 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 24 | 24 | |
| 4-Methyl-2-pentanone (MIBK) | < 12 | 12 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 12 | 12 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 12 | 12 | |
| Dibromofluoromethane (surrogate) | 87% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 86% | | |
| Toluene-d8 (surrogate) | 88% | | |
| 4-bromofluorobenzene (surrogate) | 96% | | |
| Analysis Date/Time: | 5-20-11/06:05 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 84% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-5 (6-8) | **Sample Collection Date/Time:** | 5/12/11 | 13:15 |
| **Envision Sample Number:** | 11-9508 | **Sample Received Date/Time:** | 5/13/11 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.9 | 17.9 | |
| 4-bromofluorobenzene (surrogate | 113% | | |
| Analysis Date/Time: | 5-20-11/03:10 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 84% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-5 (6-8)
**Envision Sample Number:** 11-9508
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 13:15
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 24 | 24 | |
| o-Terphenyl (surrogate) | 68% | | |
| Analysis Date/Time: | 05-21-11/14:55 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 84% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-5 (6-8) | **Sample Collection Date/Time:** | 5/12/2011 | 13:15 |
| **Envision Sample Number:** | 11-9508 | **Sample Received Date/Time:** | 5/13/2011 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 16.0% | | 1684 |
| Percent Solids | 84.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-5 (12-14) **Sample Collection Date/Time:** 5/12/11 13:25
**Envision Sample Number:** 11-9509 **Sample Received Date/Time:** 5/13/11 8:50
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 116 | 116 | |
| Acrolein | < 116 | 116 | |
| Acrylonitrile | < 116 | 116 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 58 | 58 | |
| 2-Butanone (MEK) | < 12 | 12 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 58 | 58 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 116 | 116 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 116 | 116 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 12 | 12 | |
| 2-Hexanone | < 12 | 12 | |
| Iodomethane | < 12 | 12 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 12 | 12 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 12 | 12 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 12 | 12 | |
| Dibromofluoromethane (surrogate) | 90% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 94% | | |
| Toluene-d8 (surrogate) | 90% | | |
| 4-bromofluorobenzene (surrogate) | 97% | | |
| Analysis Date/Time: | 5-20-11/06:24 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 86% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-5 (12-14) | **Sample Collection Date/Time:** | 5/12/11 | 13:25 |
| **Envision Sample Number:** | 11-9509 | **Sample Received Date/Time:** | 5/13/11 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.4 | 17.4 | |
| 4-bromofluorobenzene (surrogate | 116% | | |
| Analysis Date/Time: | 5-20-11/03:30 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 86% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-5 (12-14)
**Envision Sample Number:** 11-9509
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 13:25
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 23 | 23 | |
| o-Terphenyl (surrogate) | 58% | | |
| Analysis Date/Time: | 05-21-11/15:23 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 86% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-5 (12-14) | **Sample Collection Date/Time:** | 5/12/2011 | 13:25 |
| **Envision Sample Number:** | 11-9509 | **Sample Received Date/Time:** | 5/13/2011 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 14.0% | | 1684 |
| Percent Solids | 86.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 051911VW

**Client Sample ID:** SB-5
**Envision Sample Number:** 11-9510
**Sample Matrix:** water
**Sample Collection Date/Time** 5/12/11 13:35
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 108% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 109% | | |
| Toluene-d8 (surrogate) | 100% | | |
| 4-bromofluorobenzene (surrogate) | 94% | | |
| Analysis Date/Time: | 5-19-11/19:11 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-6 (2-4)
**Envision Sample Number:** 11-9511
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 14:05
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 105 | 105 | |
| Acrolein | < 105 | 105 | |
| Acrylonitrile | < 105 | 105 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 53 | 53 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 53 | 53 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 105 | 105 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 105 | 105 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 21 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 91% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 92% | | |
| Toluene-d8 (surrogate) | 93% | | |
| 4-bromofluorobenzene (surrogate) | 93% | | |
| Analysis Date/Time: | 5-20-11/06:43 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 95% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-6 (2-4) | **Sample Collection Date/Time:** | 5/12/11 | 14:05 |
| **Envision Sample Number:** | 11-9511 | **Sample Received Date/Time:** | 5/13/11 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 15.8 | 15.8 | |
| 4-bromofluorobenzene (surrogate | 123% | | |
| Analysis Date/Time: | 5-20-11/03:49 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 95% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-6 (2-4)
**Envision Sample Number:** 11-9511
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 14:05
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 21 | 21 | |
| o-Terphenyl (surrogate) | 61% | | |
| Analysis Date/Time: | 05-21-11/15:52 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 95% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B
**Analytical Batch:**

**Client Sample ID:** SB-6 (2-4)
**Envision Sample Number:** 11-9511
**Sample Matrix:** soil
**Sample Collection Date/Time:** 5/12/11 14:05
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Antimony | < 2 | 2 | |
| Arsenic | < 2 | 2 | |
| Beryllium | < 1 | 1 | |
| Cadmium | < 2 | 2 | |
| Chromium | **3.3** | 2 | |
| Copper | **48** | 2 | |
| Lead | **2.4** | 2 | |
| Mercury | < 1 | 1 | |
| Nickel | **4.3** | 2 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Thallium | < 2 | 2 | |
| Zinc | **15** | 2 | |

Percent Solids 95%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/11:11 | Hg Analysis Date/Time: | 05-19-11/12:22 |
| Analyst Initials: | LLL | Hg Analyst Initials: | LLL |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 1.0 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-6 (2-4) | **Sample Collection Date/Time:** | 5/12/2011 | 14:05 |
| **Envision Sample Number:** | 11-9511 | **Sample Received Date/Time:** | 5/13/2011 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 5.0% | | 1684 |
| Percent Solids | 95.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-6 (6-8)
**Envision Sample Number:** 11-9512
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 14:10
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 115 | 115 | |
| Acrolein | < 115 | 115 | |
| Acrylonitrile | < 115 | 115 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 115 | 115 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 115 | 115 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 92% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 95% | | |
| Toluene-d8 (surrogate) | 92% | | |
| 4-bromofluorobenzene (surrogate) | 96% | | |
| Analysis Date/Time: | 5-20-11/07:03 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-6 (6-8) | **Sample Collection Date/Time:** | 5/12/11 | 14:10 |
| **Envision Sample Number:** | 11-9512 | **Sample Received Date/Time:** | 5/13/11 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.2 | 17.2 | |
| 4-bromofluorobenzene (surrogate | 111% | | |
| Analysis Date/Time: | 5-20-11/04:08 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-6 (6-8)
**Envision Sample Number:** 11-9512
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11 14:10
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 23 | 23 | |
| o-Terphenyl (surrogate) | 64% | | |
| Analysis Date/Time: | 05-21-11/16:20 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 87% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-6 (6-8) | **Sample Collection Date/Time:** | 5/12/2011 | 14:10 |
| **Envision Sample Number:** | 11-9512 | **Sample Received Date/Time:** | 5/13/2011 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 13.0% | | 1684 |
| Percent Solids | 87.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 051911VW

**Client Sample ID:** SB-6 **Sample Collection Date/Time** 5/12/11 14:45
**Envision Sample Number:** 11-9513 **Sample Received Date/Time:** 5/13/11 8:50
**Sample Matrix:** water

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 105% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 105% | | |
| Toluene-d8 (surrogate) | 98% | | |
| 4-bromofluorobenzene (surrogate) | 94% | | |
| Analysis Date/Time: | 5-19-11/19:39 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-8 (2-4)
**Envision Sample Number:** 11-9514
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 118 | 118 | |
| Acrolein | < 118 | 118 | |
| Acrylonitrile | < 118 | 118 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 59 | 59 | |
| 2-Butanone (MEK) | < 12 | 12 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 59 | 59 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 118 | 118 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 118 | 118 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 12 | 12 | |
| 2-Hexanone | < 12 | 12 | |
| Iodomethane | < 12 | 12 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 24 | 24 | |
| 4-Methyl-2-pentanone (MIBK) | < 12 | 12 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 12 | 12 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 12 | 12 | |
| Dibromofluoromethane (surrogate) | 88% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 92% | | |
| Toluene-d8 (surrogate) | 84% | | |
| 4-bromofluorobenzene (surrogate) | 95% | | |
| Analysis Date/Time: | 5-20-11/07:22 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 85% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

**Client Sample ID:** SB-8 (2-4)
**Envision Sample Number:** 11-9514
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.6 | 17.6 | |
| 4-bromofluorobenzene (surrogate | 120% | | |
| Analysis Date/Time: | 5-20-11/04:27 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 85% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-8 (2-4)
**Envision Sample Number:** 11-9514
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **139** | 24 | |
| o-Terphenyl (surrogate) | 91% | | |
| Analysis Date/Time: | 05-21-11/16:49 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 85% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B
**Analytical Batch:**

**Client Sample ID:** SB-8 (2-4)
**Envision Sample Number:** 11-9514
**Sample Matrix:** soil
**Sample Collection Date/Time:** 5/12/11
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Antimony | < 2 | 2 | |
| Arsenic | **3.1** | 2 | |
| Beryllium | < 1 | 1 | |
| Cadmium | < 2 | 2 | |
| Chromium | **13** | 2 | |
| Copper | **65** | 2 | |
| Lead | **4.9** | 2 | |
| Mercury | < 1 | 1 | |
| Nickel | **12** | 2 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Thallium | < 2 | 2 | |
| Zinc | **39** | 2 | |
| | | | |
| Percent Solids | 85% | | |

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/11:15 | Hg Analysis Date/Time: | 05-19-11/12:24 |
| Analyst Initials: | LLL | Hg Analyst Initials: | LLL |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 1.0 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-8 (2-4) | **Sample Collection Date/Time:** | 5/12/2011 | |
| **Envision Sample Number:** | 11-9514 | **Sample Received Date/Time:** | 5/13/2011 | 8:50 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 15.0% | | 1684 |
| Percent Solids | 85.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-8 (6-8)
**Envision Sample Number:** 11-9515
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 104 | 104 | |
| Acrolein | < 104 | 104 | |
| Acrylonitrile | < 104 | 104 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 52 | 52 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 52 | 52 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 104 | 104 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 104 | 104 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 21 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene, Total | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 89% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 94% | | |
| Toluene-d8 (surrogate) | 93% | | |
| 4-bromofluorobenzene (surrogate) | 94% | | |
| Analysis Date/Time: | 5-20-11/07:41 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 96% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

**Client Sample ID:** SB-8 (6-8)
**Envision Sample Number:** 11-9515
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 15.6 | 15.6 | |
| 4-bromofluorobenzene (surrogate | 108% | | |
| Analysis Date/Time: | 5-20-11/04:47 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 96% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-8 (6-8)
**Envision Sample Number:** 11-9515
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 21 | 21 | |
| o-Terphenyl (surrogate) | 72% | | |
| Analysis Date/Time: | 05-21-11/17:17 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 96% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Client Sample ID:** SB-8 (6-8) **Sample Collection Date/Time:** 5/12/2011
**Envision Sample Number:** 11-9515 **Sample Received Date/Time:** 5/13/2011 8:50
**Sample Matrix:** soil

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 4.0% | | 1684 |
| Percent Solids | 96.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-8 (14-16) **Sample Collection Date/Time:** 5/12/11
**Envision Sample Number:** 11-9516 **Sample Received Date/Time:** 5/13/11 8:50
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 114 | 114 | |
| Acrolein | < 114 | 114 | |
| Acrylonitrile | < 114 | 114 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 114 | 114 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 114 | 114 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 87% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 99% | | |
| Toluene-d8 (surrogate) | 92% | | |
| 4-bromofluorobenzene (surrogate) | 97% | | |
| Analysis Date/Time: | 5-20-11/08:01 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

**Client Sample ID:** SB-8 (14-16)
**Envision Sample Number:** 11-9516
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.0 | 17.0 | |
| 4-bromofluorobenzene (surrogate | 114% | | |
| Analysis Date/Time: | 5-20-11/05:06 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-8 (14-16)
**Envision Sample Number:** 11-9516
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/12/11
**Sample Received Date/Time:** 5/13/11 8:50

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 23 | 23 | |
| o-Terphenyl (surrogate) | 64% | | |
| Analysis Date/Time: | 05-21-11/17:45 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Client Sample ID:** SB-8 (14-16) **Sample Collection Date/Time:** 5/12/2011
**Envision Sample Number:** 11-9516 **Sample Received Date/Time:** 5/13/2011 8:50
**Sample Matrix:** soil

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 12.0% | | 1684 |
| Percent Solids | 88.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1197

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 051911VW

**Client Sample ID:** SB-8 **Sample Collection Date/Time** 5/12/11
**Envision Sample Number:** 11-9517 **Sample Received Date/Time:** 5/13/11 8:50
**Sample Matrix:** water

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | **17.9** | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | **11.8** | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 104% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 108% | | |
| Toluene-d8 (surrogate) | 98% | | |
| 4-bromofluorobenzene (surrogate) | 94% | | |
| Analysis Date/Time: | 5-19-11/20:07 | | |
| Analyst Initials | tjg | | |

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# 8260 Quality Control Data

**ENVision Batch Number:** 051911VS

| Method Blank (MB): | MB Results (ug/kg) | Rep Lim (ug/kg) | Flag |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |

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***8260 QC Continued…***

| Method Blank (MB): | MB Results (ug/kg) | Rep Lim (ug/kg) | Flag |
|---|---|---|---|
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| 2-Hexanone | < 10 | 10 | |
| n-Hexane | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylenes, Total | <10 | 10 | |
| Dibromofluoromethane (surrogate) | 93% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 87% | | |
| Toluene-d8 (surrogate) | 92% | | |
| 4-bromofluorobenzene (surrogate) | 91% | | |
| Analysis Date/Time: | 5-20-11/00:20 | | |
| Analyst Initials | tjg | | |

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***8260 QC Continued…***

| Laboratory Control Standard (LCS): | LCS Results (ug/kg) | LCS Conc(ug/kg) | % Rec | Flag |
|---|---|---|---|---|
| Vinyl Chloride | 56.9 | 50 | 114% | |
| 1,1-Dichloroethene | 47.1 | 50 | 94% | |
| trans-1,2-Dichloroethene | 55.2 | 50 | 110% | |
| Methyl-tert-butyl ether | 44.7 | 50 | 89% | |
| 1,1-dichloroethane | 56.6 | 50 | 113% | |
| cis-1,2-Dichloroethene | 54.7 | 50 | 109% | |
| Chloroform | 57.1 | 50 | 114% | |
| 1,1,1-Trichloroethane | 49.7 | 50 | 99% | |
| Benzene | 57.9 | 50 | 116% | |
| Trichloroethene | 56.4 | 50 | 113% | |
| Toluene | 55.9 | 50 | 112% | |
| 1,1,1,2-Tetrachloroethane | 48.7 | 50 | 97% | |
| Chlorobenzene | 57.9 | 50 | 116% | |
| Ethylbenzene | 52.2 | 50 | 104% | |
| O-Xylene | 54.1 | 50 | 108% | |
| N-propylbenzene | 56.0 | 50 | 112% | |
| Dibromofluoromethane (surrogate) | 101% | | | |
| 1,2-Dichloroethane-d4 (surrogate) | 102% | | | |
| Toluene-d8 (surrogate) | 110% | | | |
| 4-bromofluorobenzene (surrogate) | 100% | | | |
| Analysis Date/Time: | 5-20-11/00:00 | | | |
| Analyst Initials | tjg | | | |

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# 8015 TPH-Gasoline Quality Control Data

**ENVision Batch Number:** 051911GS

| Method Blank (MB): | MB Results (mg/kg) | Rep Lim (mg/kg) | Flag |
|---|---|---|---|
| TPH-Gasoline | < 15 | 15 | |
| 4-bromofluorobenzene (surrogate) | 117% | | |
| Analysis Date/Time: | 5-20-11/00:55 | | |
| Analyst Initials: | tjg | | |

| LCS/LCSD | LCS Results (mg/kg) | LCS/LCSD Conc. (mg/kg) | LCSD Result (mg/kg) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| TPH-Gasoline | 9.03 | 10 | 10.3 | 90% | 103% | 13.14 | |
| 4-bromofluorobenzene (surrogate) | 116% | | 120% | | | | |
| Analysis Date/Time: | 5-20-11/00:36 | | 5-20-11/01:15 | | | | |
| Analyst Initials | tjg | | tjg | | | | |

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## 8015 TPH-Extended Range Quality Control Data

**ENVision Batch Number:** 051811(2)DS

| Method Blank (MB): | MB Results (mg/kg) | Reporting Limit (mg/kg) | Flag |
|---|---|---|---|
| TPH-Extended Range | < 20 | 20 | |
| o-Terphenyl (surrogate) | 75% | | |
| Analysis Date/Time: | 05-21-11/11:36 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |

| LCS/LCSD | LCS Result (mg/kg) | LCS/LCSD Conc. (mg/kg) | LCSD Result (mg/kg) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| TPH-Extended Range | 72.86 | 100 | 83.09 | 72.9% | 83.1% | 13.1% | |
| o-Terphenyl (surrogate) | 70% | | 82% | | | | |
| Analysis Date/Time: | 05-21-11/12:04 | | 05-21-11/12:32 | | | | |
| Analyst Initials: | LLL | | LLL | | | | |
| Date Extracted: | 5/18/2011 | | 5/18/2011 | | | | |
| Initial Sample Weight: | 30 g | | 30 g | | | | |
| Final Volume: | 3.0 mL | | 3.0 mL | | | | |

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# 6010B/7471A Metals Quality Control Data

**ENVision Batch Number:** 051911icp/051911hgs

| Method Blank (MB): | MB Results (mg/kg) | Rep Lim (mg/kg) | Flag |
|---|---|---|---|
| Antimony | < 2 | 2 | |
| Arsenic | < 2 | 2 | |
| Beryllium | < 0.5 | 0.5 | |
| Cadmium | < 2 | 2 | |
| Chromium | < 2 | 2 | |
| Copper | < 2 | 2 | |
| Lead | < 2 | 2 | |
| Mercury | < 1 | 1 | |
| Nickel | < 2 | 2 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Thallium | < 2 | 2 | |
| Zinc | < 2 | 2 | |
| Analysis Date/Time: | 05-19-11/10:32/05-19-11/11:27 | | |
| Analyst Initials: | gjd | | |

| Laboratory Control Standard: | LCS Results (mg/kg) | LCS Conc(mg/kg) | % Rec | Flag |
|---|---|---|---|---|
| Antimony | 0.47 | 0.50 | 94% | |
| Arsenic | 0.48 | 0.50 | 96% | |
| Beryllium | 0.51 | 0.50 | 102% | |
| Cadmium | 0.53 | 0.50 | 106% | |
| Chromium | 0.45 | 0.50 | 90% | |
| Copper | 0.51 | 0.50 | 102% | |
| Lead | 0.54 | 0.50 | 108% | |
| Mercury | 0.0041 | 0.005 | 82% | |
| Nickel | 0.47 | 0.50 | 94% | |
| Selenium | 0.61 | 0.50 | 122% | |
| Silver | 0.51 | 0.50 | 102% | |
| Thallium | 0.41 | 0.50 | 82% | |
| Zinc | 0.59 | 0.50 | 118% | |
| Analysis Date/Time: | 05-19-11/10:36/05-19-11/11:31 | | | |
| Analyst Initials: | gjd | | | |

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# 8260 Quality Control Data

**ENVision Batch Number:** 051911VW

| Method Blank (MB): | MB Results (ug/L) | Rep Lim (ug/L) | Flag |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |

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***8260 QC Continued…***

| Method Blank (MB): | MB Results (ug/L) | Rep Lim (ug/L) |
|---|---|---|
| Hexachloro-1,3-butadiene | < 5 | 5 |
| 2-Hexanone | < 10 | 10 |
| n-Hexane | < 10 | 10 |
| Iodomethane | < 10 | 10 |
| Isopropylbenzene (Cumene) | < 5 | 5 |
| p-Isopropyltoluene | < 5 | 5 |
| Methylene chloride | < 5 | 5 |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 |
| Methyl-tert-butyl-ether | < 5 | 5 |
| Naphthalene | < 5 | 5 |
| n-Propylbenzene | < 5 | 5 |
| Styrene | < 5 | 5 |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 |
| Tetrachloroethene | < 5 | 5 |
| Toluene | < 5 | 5 |
| 1,2,3-Trichlorobenzene | < 5 | 5 |
| 1,2,4-Trichlorobenzene | < 5 | 5 |
| 1,1,1-Trichloroethane | < 5 | 5 |
| 1,1,2-Trichloroethane | < 5 | 5 |
| Trichloroethene | < 5 | 5 |
| Trichlorofluoromethane | < 5 | 5 |
| 1,2,3-Trichloropropane | < 5 | 5 |
| 1,2,4-Trimethylbenzene | < 5 | 5 |
| 1,3,5-Trimethylbenzene | < 5 | 5 |
| Vinyl acetate | < 10 | 10 |
| Vinyl chloride | < 2 | 2 |
| Xylene, M&P | < 5 | 5 |
| Xylene, 0rtho | < 5 | 5 |
| Xylene (total) | < 10 | 10 |
| Dibromofluoromethane (surrogate) | 88% | |
| 1,2-Dichloroethane-d4 (surrogate) | 87% | |
| Toluene-d8 (surrogate) | 86% | |
| 4-bromofluorobenzene (surrogate) | 82% | |
| Analysis Date/Time: | 5-19-11/13:40 | |
| Analyst Initials | tjg | |

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***8260 QC Continued…***

| Laboratory Control Standard (LCS): | LCS Results (ug/L) | LCS Conc(ug/L) | % Rec | Flag |
|---|---|---|---|---|
| Vinyl Chloride | 44.8 | 50 | 90% | |
| 1,1-Dichloroethene | 46.1 | 50 | 92% | |
| trans-1,2-Dichloroethene | 47.5 | 50 | 95% | |
| Methyl-tert-butyl-ether | 43.0 | 50 | 86% | |
| 1,1-Dichloroethane | 46.5 | 50 | 93% | |
| cis-1,2-Dichloroethene | 46.2 | 50 | 92% | |
| Chloroform | 46.1 | 50 | 92% | |
| 1,1,1-Trichloroethane | 46.9 | 50 | 94% | |
| Benzene | 46.5 | 50 | 93% | |
| Trichloroethene | 47.0 | 50 | 94% | |
| Toluene | 46.0 | 50 | 92% | |
| 1,1,1,2-Tetracholorethane | 47.0 | 50 | 94% | |
| Chlorobenzene | 46.6 | 50 | 93% | |
| Ethylbenzene | 48.8 | 50 | 98% | |
| o-Xylene | 46.1 | 50 | 92% | |
| N-propylbenzene | 50.6 | 50 | 101% | |
| Dibromofluoromethane (surrogate) | 89% | | | |
| 1,2-Dichloroethane-d4 (surrogate) | 83% | | | |
| Toluene-d8 (surrogate) | 89% | | | |
| 4-bromofluorobenzene (surrogate) | 89% | | | |
| Analysis Date/Time: | 5-19-11/12:45 | | | |
| Analyst Initials | tjg | | | |

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| Flag Number | Comments |
|---|---|

2011 ENVision Proj#: 1197 Page 1 of 2

# CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

| | |
|---|---|
| Client: Heartland Environmental | Invoice Address: |
| Report Address: 3410 Mishawaka Ave South Bend, IN 46615 | Project Name: UEA-Sample Street |
| Report To: nvijay@heartlandenv.com | Lab Contact: |
| Phone: 574-289-1191 | Sampled by: N. Vijay |
| Fax: 574-289-7410 | P.O. Number: |
| Desired TAT: (Please Circle One) 1-2 days 3-6 days Std (7 bus. days) | QA/QC Required: (circle if applicable) Level III Level IV |

**REQUESTED PARAMETERS**

VOCs 8260
TPH (GRO) (DRO) 8015M
RCRA Pollutant Metals 6010B

**Sample Integrity:**
Cooler Temp: 4 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

*Please indicate number of containers per preservative below*

| Sample ID | Coll. Date | Coll. Time | Comp (C) Grab (G) | Matrix | VOCs 8260 | TPH (GRO) (DRO) 8015M | RCRA Pollutant Metals 6010B | HCl | $HNO_3$ | $H_2SO_4$ | NaOH | 5035 Other | 5035 None | ENVision Sample ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-4 (2-4) | 5/12/11 | 0940 | G | Soil | X | X | X | | | | | 4 | 1 | 11-9503 |
| SB-4 (6-8) | | 0950 | | Soil | | X | | | | | | 4 | 1 | 9504 |
| SB-4 (14-16) | | 1020 | | Soil | | X | | | | | | 4 | 1 | 9505 |
| SB-4 | | 1030 | | Water | | | | 2 | | | | | | 9506 |
| SB-5 (2-4) | | 1310 | | Soil | | X | X | | | | | 4 | 1 | 9507 |
| SB-5 (6-8) | | 1315 | | Soil | | X | | | | | | 4 | 1 | 9508 |
| SB-5 (12-14) | | 1325 | | Soil | | X | | | | | | 4 | 1 | 9509 |
| SB-5 | | 1335 | | Water | | | | 2 | | | | | | 9510 |
| SB-6 (2-4) | | 1405 | | Soil | | X | X | | | | | 4 | 1 | 9511 |
| SB-6 (6-8) | | 1410 | | Soil | | X | | | | | | 4 | 1 | 9512 |
| SB-6 | | 1445 | | Water | | | | 2 | | | | | | 9513 |

Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | 5/12/11 | 1810 | FedEx | 5/12/11 | 1810 |
| | | | | 5/13/11 | 850 |

2011 1197 ENVision Proj#: Page 2 of 2

# CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

| | |
|---|---|
| Client: Heartland Env. | Invoice Address: |
| Report Address: 3410 Mishawaka Ave South Bend, IN 46615 | Project Name: VEA - Sample Street |
| Report To: nvijaye@heartlandenv.com | Lab Contact: |
| Phone: 574-289-1191 | Sampled by: N. Vijay |
| Fax: 574-289-7480 | P.O. Number: |
| Desired TAT: (Please Circle One) 1-2 days 3-6 days Std (7 bus. days) | QA/QC Required: (circle if applicable) Level III Level IV |

**REQUESTED PARAMETERS**

VOCs 8260 | TPH (GRO/DRO) 8015M | R.P. Metals 6010B

**Sample Integrity:**
Cooler Temp: 4 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

*Please indicate number of containers per preservative below*

| Sample ID | Coll. Date | Coll. Time | Comp (C) Grab (G) | Matrix | VOCs 8260 | TPH (GRO/DRO) 8015M | R.P. Metals 6010B | HCl | $HNO_3$ | $H_2SO_4$ | NaOH | 5035 Other | None | ENVision Sample ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-8 | 5/12/11 | | G | Soil | X | X | X | | | | | 4 | 1 | 11-9514 |
| SB-8 | " | | " | Soil | " | X | | | | | | 4 | 1 | 9515 |
| SB-8 | " | | " | Soil | " | X | | | | | | 4 | 1 | 9516 |
| SB-8 | " | | " | Water | " | | | 2 | | | | | | 9517 |

Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | 5/12/11 | 1810 | FedEx | 5/12/11 | 1810 |
| | | | Fed B | 5/13/11 | 850 |

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Mr. Nivas Vijay
Heartland Environmental
3410 Mishawaka Ave.
South Bend, IN 46615

May 27, 2011

ENVision Project Number: 2011-1198
Client Project Name: UEA-Sample Street

Dear Mr. Vijay,

Please find the attached analytical report for the samples received May 14, 2011. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data. Metals analyses are not included in the NELAC certification.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

David Norris

Client Services Manager
ENVision Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100454

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-7 (2-4) **Sample Collection Date/Time:** 5/13/11 8:15
**Envision Sample Number:** 11-9518 **Sample Received Date/Time:** 5/14/11 11:15
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 104 | 104 | |
| Acrolein | < 104 | 104 | |
| Acrylonitrile | < 104 | 104 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 52 | 52 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 52 | 52 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 104 | 104 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 104 | 104 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 21 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene, Total | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 89% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 94% | | |
| Toluene-d8 (surrogate) | 88% | | |
| 4-bromofluorobenzene (surrogate) | 96% | | |
| Analysis Date/Time: | 5-20-11/08:20 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 96% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 051911GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-7 (2-4) | **Sample Collection Date/Time:** | 5/13/11 | 8:15 |
| **Envision Sample Number:** | 11-9518 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 15.6 | 15.6 | |
| 4-bromofluorobenzene (surrogate | 122% | | |
| Analysis Date/Time: | 5-20-11/05:25 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 96% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-7 (2-4) | **Sample Collection Date/Time:** | 5/13/11 | 8:15 |
| **Envision Sample Number:** | 11-9518 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 21 | 21 | |
| o-Terphenyl (surrogate) | 67% | | |
| Analysis Date/Time: | 05-21-11/18:14 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 96% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B
**Analytical Batch:**

**Client Sample ID:** SB-7 (2-4)
**Envision Sample Number:** 11-9518
**Sample Matrix:** soil
**Sample Collection Date/Time:** 5/13/11 8:15
**Sample Received Date/Time:** 5/14/11 11:15

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Antimony | < 2 | 2 | |
| Arsenic | < 2 | 2 | |
| Beryllium | < 1 | 1 | |
| Cadmium | < 2 | 2 | |
| Chromium | **4.4** | 2 | |
| Copper | **70** | 2 | |
| Lead | **7.1** | 2 | |
| Mercury | < 1 | 1 | |
| Nickel | **4.4** | 2 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Thallium | < 2 | 2 | |
| Zinc | **35** | 2 | |

Percent Solids 96%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/11:19 | Hg Analysis Date/Time: | 05-19-11/12:27 |
| Analyst Initials: | LLL | Hg Analyst Initials: | LLL |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 1.0 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-7 (2-4) | **Sample Collection Date/Time:** | 5/13/2011 | 8:15 |
| **Envision Sample Number:** | 11-9518 | **Sample Received Date/Time:** | 5/14/2011 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 4.0% | | 1684 |
| Percent Solids | 96.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-7 (6-8) **Sample Collection Date/Time:** 5/13/11 8:20
**Envision Sample Number:** 11-9519 **Sample Received Date/Time:** 5/14/11 11:15
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 114 | 114 | |
| Acrolein | < 114 | 114 | |
| Acrylonitrile | < 114 | 114 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 114 | 114 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 114 | 114 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 91% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 93% | | |
| Toluene-d8 (surrogate) | 94% | | |
| 4-bromofluorobenzene (surrogate) | 95% | | |
| Analysis Date/Time: | 5-20-11/08:39 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 052011GS

**Client Sample ID:** SB-7 (6-8)
**Envision Sample Number:** 11-9519
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/13/11 8:20
**Sample Received Date/Time:** 5/14/11 11:15

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.0 | 17.0 | |
| 4-bromofluorobenzene (surrogate | 110% | | |
| Analysis Date/Time: | 5-20-11/06:04 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-7 (6-8) | **Sample Collection Date/Time:** | 5/13/11 | 8:20 |
| **Envision Sample Number:** | 11-9519 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 23 | 23 | |
| o-Terphenyl (surrogate) | 66% | | |
| Analysis Date/Time: | 05-21-11/18:42 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-7 (6-8) | **Sample Collection Date/Time:** | 5/13/2011 | 8:20 |
| **Envision Sample Number:** | 11-9519 | **Sample Received Date/Time:** | 5/14/2011 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 12.0% | | 1684 |
| Percent Solids | 88.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 051911VW

**Client Sample ID:** SB-7 (2-4)
**Envision Sample Number:** 11-9520
**Sample Matrix:** water

**Sample Collection Date/Time:** 5/13/11 8:50
**Sample Received Date/Time:** 5/14/11 11:15

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | **5.69** | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 105% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 108% | | |
| Toluene-d8 (surrogate) | 98% | | |
| 4-bromofluorobenzene (surrogate) | 93% | | |
| Analysis Date/Time: | 5-19-11/20:34 | | |
| Analyst Initials | tjg | | |

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Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-9 (2-4) **Sample Collection Date/Time:** 5/13/11 9:10
**Envision Sample Number:** 11-9521 **Sample Received Date/Time:** 5/14/11 11:15
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 114 | 114 | |
| Acrolein | < 114 | 114 | |
| Acrylonitrile | < 114 | 114 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 114 | 114 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 114 | 114 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 88% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 92% | | |
| Toluene-d8 (surrogate) | 91% | | |
| 4-bromofluorobenzene (surrogate) | 108% | | |
| Analysis Date/Time: | 5-20-11/08:58 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 052011GS

**Client Sample ID:** SB-9 (2-4)
**Envision Sample Number:** 11-9521
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/13/11 9:10
**Sample Received Date/Time:** 5/14/11 11:15

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.0 | 17.0 | |
| 4-bromofluorobenzene (surrogate | 106% | | |
| Analysis Date/Time: | 5-20-11/06:23 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

**Client Sample ID:** SB-9 (2-4)
**Envision Sample Number:** 11-9521
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/13/11 9:10
**Sample Received Date/Time:** 5/14/11 11:15

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **35.0** | 23 | |
| o-Terphenyl (surrogate) | 64% | | |
| Analysis Date/Time: | 05-21-11/19:11 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B
**Analytical Batch:**

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-9 (2-4) | **Sample Collection Date/Time:** | 5/13/11 | 9:10 |
| **Envision Sample Number:** | 11-9521 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Antimony | < 2 | 2 | |
| Arsenic | **4.5** | 2 | |
| Beryllium | < 1 | 1 | |
| Cadmium | < 2 | 2 | |
| Chromium | **5.9** | 2 | |
| Copper | **49** | 2 | |
| Lead | **7.4** | 2 | |
| Mercury | < 1 | 1 | |
| Nickel | **7.1** | 2 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Thallium | < 2 | 2 | |
| Zinc | **36** | 2 | |

Percent Solids 88%

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/10:47 | Hg Analysis Date/Time: | 05-19-11/12:29 |
| Analyst Initials: | LLL | Hg Analyst Initials: | LLL |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 1.0 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-9 (2-4) | **Sample Collection Date/Time:** | 5/13/2011 | 9:10 |
| **Envision Sample Number:** | 11-9521 | **Sample Received Date/Time:** | 5/14/2011 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 12.0% | | 1684 |
| Percent Solids | 88.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-9 (6-8) **Sample Collection Date/Time:** 5/13/11 9:20
**Envision Sample Number:** 11-9522 **Sample Received Date/Time:** 5/14/11 11:15
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 114 | 114 | |
| Acrolein | < 114 | 114 | |
| Acrylonitrile | < 114 | 114 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 114 | 114 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 114 | 114 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 83% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 97% | | |
| Toluene-d8 (surrogate) | 95% | | |
| 4-bromofluorobenzene (surrogate) | 96% | | |
| Analysis Date/Time: | 5-20-11/09:18 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 052011GS

**Client Sample ID:** SB-9 (6-8)
**Envision Sample Number:** 11-9522
**Sample Matrix:** soil

**Sample Collection Date/Time:** 5/13/11 9:20
**Sample Received Date/Time:** 5/14/11 11:15

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.0 | 17.0 | |
| 4-bromofluorobenzene (surrogate | 110% | | |
| Analysis Date/Time: | 5-20-11/06:43 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-9 (6-8) | **Sample Collection Date/Time:** | 5/13/11 | 9:20 |
| **Envision Sample Number:** | 11-9522 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 23 | 23 | |
| o-Terphenyl (surrogate) | 50% | | |
| Analysis Date/Time: | 05-21-11/19:39 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-9 (6-8) | **Sample Collection Date/Time:** | 5/13/2011 | 9:20 |
| **Envision Sample Number:** | 11-9522 | **Sample Received Date/Time:** | 5/14/2011 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 12.0% | | 1684 |
| Percent Solids | 88.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-10 (2-4) **Sample Collection Date/Time:** 5/13/11 9:30
**Envision Sample Number:** 11-9523 **Sample Received Date/Time:** 5/14/11 11:15
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 114 | 114 | |
| Acrolein | < 114 | 114 | |
| Acrylonitrile | < 114 | 114 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 57 | 57 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 57 | 57 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 114 | 114 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 114 | 114 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 23 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 90% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 103% | | |
| Toluene-d8 (surrogate) | 97% | | |
| 4-bromofluorobenzene (surrogate) | 96% | | |
| Analysis Date/Time: | 5-20-11/09:37 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 052011GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (2-4) | **Sample Collection Date/Time:** | 5/13/11 | 9:30 |
| **Envision Sample Number:** | 11-9523 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 17.0 | 17.0 | |
| 4-bromofluorobenzene (surrogate | 125% | | |
| Analysis Date/Time: | 5-20-11/07:41 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (2-4) | **Sample Collection Date/Time:** | 5/13/11 | 9:30 |
| **Envision Sample Number:** | 11-9523 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 23 | 23 | |
| o-Terphenyl (surrogate) | 55% | | |
| Analysis Date/Time: | 05-21-11/20:08 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 88% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** Metals 6010B/7471A
**Prep Method:** 3050B
**Analytical Batch:**

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (2-4) | **Sample Collection Date/Time:** | 5/13/11 | 9:30 |
| **Envision Sample Number:** | 11-9523 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| Antimony | < 2 | 2 | |
| Arsenic | **3.3** | 2 | |
| Beryllium | < 1 | 1 | |
| Cadmium | < 2 | 2 | |
| Chromium | **16** | 2 | |
| Copper | **73** | 2 | |
| Lead | **9.4** | 2 | |
| Mercury | < 1 | 1 | |
| Nickel | **6.3** | 2 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Thallium | < 2 | 2 | |
| Zinc | **32** | 2 | |
| | | | |
| Percent Solids | 88% | | |

| | | | |
|---|---|---|---|
| Analysis Date/Time: | 05-19-11/10:51 | Hg Analysis Date/Time: | 05-19-11/12:31 |
| Analyst Initials: | LLL | Hg Analyst Initials: | LLL |
| Date Digested: | 5/18/2011 | Date Digested: | 5/18/2011 |
| Initial Sample Weight: | 1.0 g | Initial Sample Weight: | 1.0 g |
| Final Volume: | 50 mL | Final Volume: | 50 mL |
| **Analytical Batch:** | 051911icp | **Analytical Batch:** | 051911hgs |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (2-4) | **Sample Collection Date/Time:** | 5/13/2011 | 9:30 |
| **Envision Sample Number:** | 11-9523 | **Sample Received Date/Time:** | 5/14/2011 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 12.0% | | 1684 |
| Percent Solids | 88.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-10 (6-8) **Sample Collection Date/Time:** 5/13/11 9:40
**Envision Sample Number:** 11-9524 **Sample Received Date/Time:** 5/14/11 11:15
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 109 | 109 | |
| Acrolein | < 109 | 109 | |
| Acrylonitrile | < 109 | 109 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 54 | 54 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 54 | 54 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 109 | 109 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 109 | 109 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 22 | 22 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 89% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 95% | | |
| Toluene-d8 (surrogate) | 94% | | |
| 4-bromofluorobenzene (surrogate) | 99% | | |
| Analysis Date/Time: | 5-20-11/09:56 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 92% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 052011GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (6-8) | **Sample Collection Date/Time:** | 5/13/11 | 9:40 |
| **Envision Sample Number:** | 11-9524 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 16.3 | 16.3 | |
| 4-bromofluorobenzene (surrogate | 99% | | |
| Analysis Date/Time: | 5-20-11/08:37 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 92% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (6-8) | **Sample Collection Date/Time:** | 5/13/11 | 9:40 |
| **Envision Sample Number:** | 11-9524 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | **29.6** | 22 | |
| o-Terphenyl (surrogate) | 59% | | |
| Analysis Date/Time: | 05-21-11/20:36 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 92% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (6-8) | **Sample Collection Date/Time:** | 5/13/2011 | 9:40 |
| **Envision Sample Number:** | 11-9524 | **Sample Received Date/Time:** | 5/14/2011 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 8.0% | | 1684 |
| Percent Solids | 92.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8260
**Prep Method:** 5035A
**Analytical Batch:** 051911VS

**Client Sample ID:** SB-10 (12-14) **Sample Collection Date/Time:** 5/13/11 9:50
**Envision Sample Number:** 11-9525 **Sample Received Date/Time:** 5/14/11 11:15
**Sample Matrix:** soil

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| Acetone | < 112 | 112 | |
| Acrolein | < 112 | 112 | |
| Acrylonitrile | < 112 | 112 | |
| Benzene | < 6 | 6 | |
| Bromobenzene | < 6 | 6 | |
| Bromochloromethane | < 6 | 6 | |
| Bromodichloromethane | < 6 | 6 | |
| Bromoform | < 6 | 6 | |
| Bromomethane | < 6 | 6 | |
| n-Butanol | < 56 | 56 | |
| 2-Butanone (MEK) | < 11 | 11 | |
| n-Butylbenzene | < 6 | 6 | |
| sec-Butylbenzene | < 6 | 6 | |
| tert-Butylbenzene | < 6 | 6 | |
| Carbon Disulfide | < 6 | 6 | |
| Carbon Tetrachloride | < 6 | 6 | |
| Chlorobenzene | < 6 | 6 | |
| Chloroethane | < 6 | 6 | |
| 2-Chloroethylvinylether | < 56 | 56 | |
| Chloroform | < 6 | 6 | |
| Chloromethane | < 6 | 6 | |
| 2-Chlorotoluene | < 6 | 6 | |
| 4-Chlorotoluene | < 6 | 6 | |
| 1,2-Dibromo-3-chloropropane | < 6 | 6 | |
| Dibromochloromethane | < 6 | 6 | |
| 1,2-Dibromoethane (EDB) | < 6 | 6 | |
| Dibromomethane | < 6 | 6 | |
| 1,2-Dichlorobenzene | < 6 | 6 | |
| 1,3-Dichlorobenzene | < 6 | 6 | |
| 1,4-Dichlorobenzene | < 6 | 6 | |
| trans-1,4-Dichloro-2-butene | < 112 | 112 | |
| Dichlorodifluoromethane | < 6 | 6 | |
| 1,1-Dichloroethane | < 6 | 6 | |
| 1,2-Dichloroethane | < 6 | 6 | |
| 1,1-Dichloroethene | < 6 | 6 | |

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Analytical Report

***8260 continued…***

| Compounds | Sample Results (ug/kg) | Rep. Limit (ug/kg) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 6 | 6 | |
| trans-1,2-Dichloroethene | < 6 | 6 | |
| 1,2-Dichloropropane | < 6 | 6 | |
| 1,3-Dichloropropane | < 6 | 6 | |
| 2,2-Dichloropropane | < 6 | 6 | |
| 1,1-Dichloropropene | < 6 | 6 | |
| cis-1,3-Dichloropropene | < 6 | 6 | |
| trans-1,3-Dichloropropene | < 6 | 6 | |
| Ethylbenzene | < 6 | 6 | |
| Ethyl methacrylate | < 112 | 112 | |
| Hexachloro-1,3-butadiene | < 6 | 6 | |
| n-Hexane | < 11 | 11 | |
| 2-Hexanone | < 11 | 11 | |
| Iodomethane | < 11 | 11 | |
| Isopropylbenzene (Cumene) | < 6 | 6 | |
| p-Isopropyltoluene | < 6 | 6 | |
| Methylene chloride | < 22 | 22 | |
| 4-Methyl-2-pentanone (MIBK) | < 11 | 11 | |
| Methyl-tert-butyl-ether | < 6 | 6 | |
| Naphthalene | < 6 | 6 | |
| n-Propylbenzene | < 6 | 6 | |
| Styrene | < 6 | 6 | |
| 1,1,1,2-Tetrachloroethane | < 6 | 6 | |
| 1,1,2,2-Tetrachloroethane | < 6 | 6 | |
| Tetrachloroethene | < 6 | 6 | |
| Toluene | < 6 | 6 | |
| 1,2,3-Trichlorobenzene | < 6 | 6 | |
| 1,2,4-Trichlorobenzene | < 6 | 6 | |
| 1,1,1-Trichloroethane | < 6 | 6 | |
| 1,1,2-Trichloroethane | < 6 | 6 | |
| Trichloroethene | < 6 | 6 | |
| Trichlorofluoromethane | < 6 | 6 | |
| 1,2,3-Trichloropropane | < 6 | 6 | |
| 1,2,4-Trimethylbenzene | < 6 | 6 | |
| 1,3,5-Trimethylbenzene | < 6 | 6 | |
| Vinyl acetate | < 11 | 11 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 6 | 6 | |
| Xylene, 0rtho | < 6 | 6 | |
| Xylene, Total | < 11 | 11 | |
| Dibromofluoromethane (surrogate) | 93% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 107% | | |
| Toluene-d8 (surrogate) | 90% | | |
| 4-bromofluorobenzene (surrogate) | 97% | | |
| Analysis Date/Time: | 5-20-11/10:15 | | |
| Analyst Initials | tjg | | |
| Percent Solids: | 89% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Gasoline Range
**Prep Method:** 5035A
**Analytical Batch:** 052011GS

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (12-14) | **Sample Collection Date/Time:** | 5/13/11 | 9:50 |
| **Envision Sample Number:** | 11-9525 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH-Gasoline | < 16.9 | 16.9 | |
| 4-bromofluorobenzene (surrogate | 116% | | |
| Analysis Date/Time: | 5-20-11/08:18 | | |
| Analyst Initials | tjg | | |
| Percent Solids | 89% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8015 TPH Extended C8-C36
**Prep Method:** 3550B
**Analytical Batch:** 052111E

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (12-14) | **Sample Collection Date/Time:** | 5/13/11 | 9:50 |
| **Envision Sample Number:** | 11-9525 | **Sample Received Date/Time:** | 5/14/11 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Compounds | Sample Results (mg/kg) | Reporting Limit (mg/kg) | Flags |
|---|---|---|---|
| TPH--Extended C8-C36 | < 22 | 22 | |
| o-Terphenyl (surrogate) | 57% | | |
| Analysis Date/Time: | 05-21-11/21:05 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |
| Percent Solids | 89% | | |

All results reported on dry weight basis.

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

| | | | | |
|---|---|---|---|---|
| **Client Sample ID:** | SB-10 (12-14) | **Sample Collection Date/Time:** | 5/13/2011 | 9:50 |
| **Envision Sample Number:** | 11-9525 | **Sample Received Date/Time:** | 5/14/2011 | 11:15 |
| **Sample Matrix:** | soil | | | |

| Analyte | Sample Results | Flags | Method |
|---|---|---|---|
| Percent Moisture | 11.0% | | 1684 |
| Percent Solids | 89.0% | | 1684 |
| Analysis Date: | 5/20/11 | | |
| Analyst Initials | jc | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA-SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1198

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 051911VW

**Client Sample ID:** SB-10 **Sample Collection Date/Time:** 5/13/11 10:05
**Envision Sample Number:** 11-9526 **Sample Received Date/Time:** 5/14/11 11:15
**Sample Matrix:** water

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | **8.88** | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 108% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 107% | | |
| Toluene-d8 (surrogate) | 100% | | |
| 4-bromofluorobenzene (surrogate) | 96% | | |
| Analysis Date/Time: | 5-19-11/21:02 | | |
| Analyst Initials | tjg | | |

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# 8260 Quality Control Data

**ENVision Batch Number:** 051911VS

| Method Blank (MB): | MB Results (ug/kg) | Rep Lim (ug/kg) | Flag |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |

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***8260 QC Continued…***

| Method Blank (MB): | MB Results (ug/kg) | Rep Lim (ug/kg) | Flag |
|---|---|---|---|
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| 2-Hexanone | < 10 | 10 | |
| n-Hexane | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylenes, Total | <10 | 10 | |
| Dibromofluoromethane (surrogate) | 93% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 87% | | |
| Toluene-d8 (surrogate) | 92% | | |
| 4-bromofluorobenzene (surrogate) | 91% | | |
| Analysis Date/Time: | 5-20-11/00:20 | | |
| Analyst Initials | tjg | | |

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***8260 QC Continued…***

| Laboratory Control Standard (LCS): | LCS Results (ug/kg) | LCS Conc(ug/kg) | % Rec | Flag |
|---|---|---|---|---|
| Vinyl Chloride | 56.9 | 50 | 114% | |
| 1,1-Dichloroethene | 47.1 | 50 | 94% | |
| trans-1,2-Dichloroethene | 55.2 | 50 | 110% | |
| Methyl-tert-butyl ether | 44.7 | 50 | 89% | |
| 1,1-dichloroethane | 56.6 | 50 | 113% | |
| cis-1,2-Dichloroethene | 54.7 | 50 | 109% | |
| Chloroform | 57.1 | 50 | 114% | |
| 1,1,1-Trichloroethane | 49.7 | 50 | 99% | |
| Benzene | 57.9 | 50 | 116% | |
| Trichloroethene | 56.4 | 50 | 113% | |
| Toluene | 55.9 | 50 | 112% | |
| 1,1,1,2-Tetrachloroethane | 48.7 | 50 | 97% | |
| Chlorobenzene | 57.9 | 50 | 116% | |
| Ethylbenzene | 52.2 | 50 | 104% | |
| O-Xylene | 54.1 | 50 | 108% | |
| N-propylbenzene | 56.0 | 50 | 112% | |
| Dibromofluoromethane (surrogate) | 101% | | | |
| 1,2-Dichloroethane-d4 (surrogate) | 102% | | | |
| Toluene-d8 (surrogate) | 110% | | | |
| 4-bromofluorobenzene (surrogate) | 100% | | | |
| Analysis Date/Time: | 5-20-11/00:00 | | | |
| Analyst Initials | tjg | | | |

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# 8015 TPH-Gasoline Quality Control Data

**ENVision Batch Number:** 051911GS

| Method Blank (MB): | MB Results (mg/kg) | Rep Lim (mg/kg) | Flag |
|---|---|---|---|
| TPH-Gasoline | < 15 | 15 | |
| 4-bromofluorobenzene (surrogate) | 117% | | |
| Analysis Date/Time: | 5-20-11/00:55 | | |
| Analyst Initials: | tjg | | |

| LCS/LCSD | LCS Results (mg/kg) | LCS/LCSD Conc. (mg/kg) | LCSD Result (mg/kg) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| TPH-Gasoline | 9.03 | 10 | 10.3 | 90% | 103% | 13.14 | |
| 4-bromofluorobenzene (surrogate) | 116% | | 120% | | | | |
| Analysis Date/Time: | 5-20-11/00:36 | | 5-20-11/01:15 | | | | |
| Analyst Initials | tjg | | tjg | | | | |

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## 8015 TPH-Extended Range Quality Control Data

**ENVision Batch Number:** 051811(2)DS

| Method Blank (MB): | MB Results (mg/kg) | Reporting Limit (mg/kg) | Flag |
|---|---|---|---|
| TPH-Extended Range | < 20 | 20 | |
| o-Terphenyl (surrogate) | 75% | | |
| Analysis Date/Time: | 05-21-11/11:36 | | |
| Analyst Initials: | LLL | | |
| Date Extracted: | 5/18/2011 | | |
| Initial Sample Weight: | 30 g | | |
| Final Volume: | 3.0 mL | | |

| LCS/LCSD | LCS Result (mg/kg) | LCS/LCSD Conc. (mg/kg) | LCSD Result (mg/kg) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| TPH-Extended Range | 72.86 | 100 | 83.09 | 72.9% | 83.1% | 13.1% | |
| o-Terphenyl (surrogate) | 70% | | 82% | | | | |
| Analysis Date/Time: | 05-21-11/12:04 | | 05-21-11/12:32 | | | | |
| Analyst Initials: | LLL | | LLL | | | | |
| Date Extracted: | 5/18/2011 | | 5/18/2011 | | | | |
| Initial Sample Weight: | 30 g | | 30 g | | | | |
| Final Volume: | 3.0 mL | | 3.0 mL | | | | |

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# 6010B/7471A Metals Quality Control Data

**ENVision Batch Number:** 051911icp/051911hgs

| Method Blank (MB): | MB Results (mg/kg) | Rep Lim (mg/kg) | Flag |
|---|---|---|---|
| Antimony | < 2 | 2 | |
| Arsenic | < 2 | 2 | |
| Beryllium | < 0.5 | 0.5 | |
| Cadmium | < 2 | 2 | |
| Chromium | < 2 | 2 | |
| Copper | < 2 | 2 | |
| Lead | < 2 | 2 | |
| Mercury | < 1 | 1 | |
| Nickel | < 2 | 2 | |
| Selenium | < 2 | 2 | |
| Silver | < 2 | 2 | |
| Thallium | < 2 | 2 | |
| Zinc | < 2 | 2 | |
| Analysis Date/Time: | 05-19-11/10:32/05-19-11/11:27 | | |
| Analyst Initials: | gjd | | |

| Laboratory Control Standard: | LCS Results (mg/kg) | LCS Conc(mg/kg) | % Rec | Flag |
|---|---|---|---|---|
| Antimony | 0.47 | 0.50 | 94% | |
| Arsenic | 0.48 | 0.50 | 96% | |
| Beryllium | 0.51 | 0.50 | 102% | |
| Cadmium | 0.53 | 0.50 | 106% | |
| Chromium | 0.45 | 0.50 | 90% | |
| Copper | 0.51 | 0.50 | 102% | |
| Lead | 0.54 | 0.50 | 108% | |
| Mercury | 0.0041 | 0.005 | 82% | |
| Nickel | 0.47 | 0.50 | 94% | |
| Selenium | 0.61 | 0.50 | 122% | |
| Silver | 0.51 | 0.50 | 102% | |
| Thallium | 0.41 | 0.50 | 82% | |
| Zinc | 0.59 | 0.50 | 118% | |
| Analysis Date/Time: | 05-19-11/10:36/05-19-11/11:31 | | | |
| Analyst Initials: | gjd | | | |

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# 8260 Quality Control Data

**ENVision Batch Number:** 051911VW

| Method Blank (MB): | MB Results (ug/L) | Rep Lim (ug/L) | Flag |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |

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***8260 QC Continued…***

| **Method Blank (MB):** | **MB Results (ug/L)** | **Rep Lim (ug/L)** |
|---|---|---|
| Hexachloro-1,3-butadiene | < 5 | 5 |
| 2-Hexanone | < 10 | 10 |
| n-Hexane | < 10 | 10 |
| Iodomethane | < 10 | 10 |
| Isopropylbenzene (Cumene) | < 5 | 5 |
| p-Isopropyltoluene | < 5 | 5 |
| Methylene chloride | < 5 | 5 |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 |
| Methyl-tert-butyl-ether | < 5 | 5 |
| Naphthalene | < 5 | 5 |
| n-Propylbenzene | < 5 | 5 |
| Styrene | < 5 | 5 |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 |
| Tetrachloroethene | < 5 | 5 |
| Toluene | < 5 | 5 |
| 1,2,3-Trichlorobenzene | < 5 | 5 |
| 1,2,4-Trichlorobenzene | < 5 | 5 |
| 1,1,1-Trichloroethane | < 5 | 5 |
| 1,1,2-Trichloroethane | < 5 | 5 |
| Trichloroethene | < 5 | 5 |
| Trichlorofluoromethane | < 5 | 5 |
| 1,2,3-Trichloropropane | < 5 | 5 |
| 1,2,4-Trimethylbenzene | < 5 | 5 |
| 1,3,5-Trimethylbenzene | < 5 | 5 |
| Vinyl acetate | < 10 | 10 |
| Vinyl chloride | < 2 | 2 |
| Xylene, M&P | < 5 | 5 |
| Xylene, 0rtho | < 5 | 5 |
| Xylene (total) | < 10 | 10 |
| Dibromofluoromethane (surrogate) | 88% | |
| 1,2-Dichloroethane-d4 (surrogate) | 87% | |
| Toluene-d8 (surrogate) | 86% | |
| 4-bromofluorobenzene (surrogate) | 82% | |
| Analysis Date/Time: | 5-19-11/13:40 | |
| Analyst Initials | tjg | |

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***8260 QC Continued…***

| Laboratory Control Standard (LCS): | LCS Results (ug/L) | LCS Conc(ug/L) | % Rec | Flag |
|---|---|---|---|---|
| Vinyl Chloride | 44.8 | 50 | 90% | |
| 1,1-Dichloroethene | 46.1 | 50 | 92% | |
| trans-1,2-Dichloroethene | 47.5 | 50 | 95% | |
| Methyl-tert-butyl-ether | 43.0 | 50 | 86% | |
| 1,1-Dichloroethane | 46.5 | 50 | 93% | |
| cis-1,2-Dichloroethene | 46.2 | 50 | 92% | |
| Chloroform | 46.1 | 50 | 92% | |
| 1,1,1-Trichloroethane | 46.9 | 50 | 94% | |
| Benzene | 46.5 | 50 | 93% | |
| Trichloroethene | 47.0 | 50 | 94% | |
| Toluene | 46.0 | 50 | 92% | |
| 1,1,1,2-Tetracholorethane | 47.0 | 50 | 94% | |
| Chlorobenzene | 46.6 | 50 | 93% | |
| Ethylbenzene | 48.8 | 50 | 98% | |
| o-Xylene | 46.1 | 50 | 92% | |
| N-propylbenzene | 50.6 | 50 | 101% | |
| Dibromofluoromethane (surrogate) | 89% | | | |
| 1,2-Dichloroethane-d4 (surrogate) | 83% | | | |
| Toluene-d8 (surrogate) | 89% | | | |
| 4-bromofluorobenzene (surrogate) | 89% | | | |
| Analysis Date/Time: | 5-19-11/12:45 | | | |
| Analyst Initials | tjg | | | |

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| Flag Number | Comments |
|---|---|

ENVision Proj#: 2011 1198 Page 1 of 1

# CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

| | |
|---|---|
| Client: Heart Land Environmental | Invoice Address: |
| Report Address: 3410 Mishawaka Ave South Bend, IN 46615 | Project Name: UEA - Sample Street |
| Report To: nv.jay@heartlandenv.com | Lab Contact: |
| Phone: 574-289-1191 | Sampled by: N. Vijay |
| Fax: 574-289-7480 | P.O. Number: |
| Desired TAT: (Please Circle One) 1-2 days 3-6 days (Std. 7 bus. days) | QA/QC Required: (circle if applicable) Level III Level IV |

**Sample Integrity:**
Cooler Temp: 3 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: (Yes) No
ENVision provided bottles: (Yes) No
VOC vials free of head-space: (Yes) No N/A
pH checked? Yes No N/A
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? (Yes) No

**REQUESTED PARAMETERS**

*Please indicate number of containers per preservative below*

| Sample ID | Coll. Date | Coll. Time | Comp (C) Grab (G) | Matrix | VOCs 8260 | TPH (GRO/DRO) 8015M | P.P. Metals 6010B | HCl | $HNO_3$ | $H_2SO_4$ | NaOH | 5035 Other | 5035 None | ENVision Sample ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-7 (2-4) | 5/13/11 | 0815 | G | Soil | X | X | X | | | | | 4 | 1 | 9518 |
| SB-7 (6-8) | | 0820 | | Soil | | X | | | | | | 4 | 1 | 9519 |
| SB-7 | | 0850 | | Water | | | | 2 | | | | | | 9520 |
| SB-9 (2-4) | | 0910 | | Soil | | X | X | | | | | 4 | 1 | 9521 |
| SB-9 (6-8) | | 0920 | | Soil | | X | | | | | | 4 | 1 | 9522 |
| SB-10 (2-4) | | 0930 | | Soil | | X | X | | | | | 4 | 1 | 9523 |
| SB-10 (6-8) | | 0940 | | Soil | | X | | | | | | 4 | 1 | 9524 |
| SB-10 (12-14) | | 0950 | | Soil | | X | | | | | | 4 | 1 | 9525 |
| SB-10 | | 1005 | | Water | | | | 2 | | | | | | 9526 |

Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | 5/13/11 | 1200 | Fed Ex | 5/13/11 | 1200 |
| | | | | 5/14/11 | 11:15 |

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Mr. Nivas Vijay
Heartland Environmental
3410 Mishawaka Ave.
South Bend, IN 46615

May 26, 2011

ENVision Project Number: 2011-1241
Client Project Name: UEA Sample Street

Dear Mr. Vijay,

Please find the attached analytical report for the samples received May 20, 2011. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

David Norris

Client Services Manager
ENVision Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100454

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** W-7
**Envision Sample Number:** 11-9791
**Sample Matrix:** water
**Sample Collection Date/Time:** 5/18/11 12:20
**Sample Received Date/Time:** 5/20/11 8:30

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | **6.29** | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 84% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 90% | | |
| Toluene-d8 (surrogate) | 86% | | |
| 4-bromofluorobenzene (surrogate) | 79% | | |
| Analysis Date/Time: | 05-23-11/14:19 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** W-8
**Envision Sample Number:** 11-9792
**Sample Matrix:** water
**Sample Collection Date/Time:** 5/18/11 13:50
**Sample Received Date/Time:** 5/20/11 8:30

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 82% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 87% | | |
| Toluene-d8 (surrogate) | 86% | | |
| 4-bromofluorobenzene (surrogate) | 82% | | |
| Analysis Date/Time: | 05-23-11/16:10 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** UNK-1
**Envision Sample Number:** 11-9793
**Sample Matrix:** water
**Sample Collection Date/Time:** 5/18/11 16:00
**Sample Received Date/Time:** 5/20/11 8:30

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 82% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 87% | | |
| Toluene-d8 (surrogate) | 86% | | |
| 4-bromofluorobenzene (surrogate) | 79% | | |
| Analysis Date/Time: | 05-23-11/16:37 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** UNK-2 **Sample Collection Date/Time:** 5/18/11 17:15
**Envision Sample Number:** 11-9794 **Sample Received Date/Time:** 5/20/11 8:30
**Sample Matrix:** water

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 83% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 87% | | |
| Toluene-d8 (surrogate) | 84% | | |
| 4-bromofluorobenzene (surrogate) | 107% | | |
| Analysis Date/Time: | 05-23-11/17:05 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** W-5 **Sample Collection Date/Time:** 5/18/11 18:55
**Envision Sample Number:** 11-9795 **Sample Received Date/Time:** 5/20/11 8:30
**Sample Matrix:** water

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 84% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 88% | | |
| Toluene-d8 (surrogate) | 85% | | |
| 4-bromofluorobenzene (surrogate) | 86% | | |
| Analysis Date/Time: | 05-23-11/17:33 | | |
| Analyst Initials | tjg | | |

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Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** W-13 **Sample Collection Date/Time** 5/19/11 9:20
**Envision Sample Number:** 11-9796 **Sample Received Date/Time:** 5/20/11 8:30
**Sample Matrix:** water

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 84% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 86% | | |
| Toluene-d8 (surrogate) | 86% | | |
| 4-bromofluorobenzene (surrogate) | 85% | | |
| Analysis Date/Time: | 05-23-11/18:00 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** W-9 **Sample Collection Date/Time:** 5/19/11 11:10
**Envision Sample Number:** 11-9797 **Sample Received Date/Time:** 5/20/11 8:30
**Sample Matrix:** water

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 84% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 88% | | |
| Toluene-d8 (surrogate) | 87% | | |
| 4-bromofluorobenzene (surrogate) | 84% | | |
| Analysis Date/Time: | 05-23-11/18:28 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** W-3
**Envision Sample Number:** 11-9798
**Sample Matrix:** water
**Sample Collection Date/Time:** 5/19/11 13:05
**Sample Received Date/Time:** 5/20/11 8:30

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 85% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 90% | | |
| Toluene-d8 (surrogate) | 87% | | |
| 4-bromofluorobenzene (surrogate) | 85% | | |
| Analysis Date/Time: | 05-23-11/18:56 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** W-1
**Envision Sample Number:** 11-9799
**Sample Matrix:** water
**Sample Collection Date/Time:** 5/19/11 14:25
**Sample Received Date/Time:** 5/20/11 8:30

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 84% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 88% | | |
| Toluene-d8 (surrogate) | 86% | | |
| 4-bromofluorobenzene (surrogate) | 83% | | |
| Analysis Date/Time: | 05-23-11/19:23 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** W-12
**Envision Sample Number:** 11-9800
**Sample Matrix:** water

**Sample Collection Date/Time:** 5/19/11 15:45
**Sample Received Date/Time:** 5/20/11 8:30

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 83% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 87% | | |
| Toluene-d8 (surrogate) | 85% | | |
| 4-bromofluorobenzene (surrogate) | 84% | | |
| Analysis Date/Time: | 05-23-11/19:51 | | |
| Analyst Initials | tjg | | |

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# Analytical Report

**Client Name:** HEARTLAND

**Project ID:** UEA SAMPLE STREET

**Client Project Manager:** NIVAS VIJAY

**ENVision Project Number:** 2011-1241

**Analytical Method:** 8260
**Prep Method:** 5030B
**Analytical Batch:** 052311VW

**Client Sample ID:** TRIP BLANK
**Envision Sample Number:** 11-9801
**Sample Matrix:** water

**Sample Collection Date/Time:** 5/19/11
**Sample Received Date/Time:** 5/20/11 8:30

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |

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Analytical Report

***8260 continued...***

| Compounds | Sample Results (ug/L) | Reporting Limit (ug/L) | Flags |
|---|---|---|---|
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |
| Hexachloro-1,3-butadiene | < 5 | 5 | |
| n-Hexane | < 10 | 10 | |
| 2-Hexanone | < 10 | 10 | |
| Iodomethane | < 10 | 10 | |
| Isopropylbenzene (Cumene) | < 5 | 5 | |
| p-Isopropyltoluene | < 5 | 5 | |
| Methylene chloride | < 5 | 5 | |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 | |
| Methyl-tert-butyl-ether | < 5 | 5 | |
| Naphthalene | < 5 | 5 | |
| n-Propylbenzene | < 5 | 5 | |
| Styrene | < 5 | 5 | |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 | |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 | |
| Tetrachloroethene | < 5 | 5 | |
| Toluene | < 5 | 5 | |
| 1,2,3-Trichlorobenzene | < 5 | 5 | |
| 1,2,4-Trichlorobenzene | < 5 | 5 | |
| 1,1,1-Trichloroethane | < 5 | 5 | |
| 1,1,2-Trichloroethane | < 5 | 5 | |
| Trichloroethene | < 5 | 5 | |
| Trichlorofluoromethane | < 5 | 5 | |
| 1,2,3-Trichloropropane | < 5 | 5 | |
| 1,2,4-Trimethylbenzene | < 5 | 5 | |
| 1,3,5-Trimethylbenzene | < 5 | 5 | |
| Vinyl acetate | < 10 | 10 | |
| Vinyl chloride | < 2 | 2 | |
| Xylene, M&P | < 5 | 5 | |
| Xylene, 0rtho | < 5 | 5 | |
| Xylene (Total) | < 10 | 10 | |
| Dibromofluoromethane (surrogate) | 85% | | |
| 1,2-Dichloroethane-d4 (surrogate) | 88% | | |
| Toluene-d8 (surrogate) | 86% | | |
| 4-bromofluorobenzene (surrogate) | 84% | | |
| Analysis Date/Time: | 05-23-11/20:19 | | |
| Analyst Initials | tjg | | |

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# 8260 Quality Control Data

**ENVision Batch Number:** 052311VW

| Method Blank (MB): | MB Results (ug/L) | Rep Lim (ug/L) | Flag |
|---|---|---|---|
| Acetone | < 100 | 100 | |
| Acrolein | < 100 | 100 | |
| Acrylonitrile | < 100 | 100 | |
| Benzene | < 5 | 5 | |
| Bromobenzene | < 5 | 5 | |
| Bromochloromethane | < 5 | 5 | |
| Bromodichloromethane | < 5 | 5 | |
| Bromoform | < 5 | 5 | |
| Bromomethane | < 5 | 5 | |
| n-Butanol | < 50 | 50 | |
| 2-Butanone (MEK) | < 10 | 10 | |
| n-Butylbenzene | < 5 | 5 | |
| sec-Butylbenzene | < 5 | 5 | |
| tert-Butylbenzene | < 5 | 5 | |
| Carbon Disulfide | < 5 | 5 | |
| Carbon Tetrachloride | < 5 | 5 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| 2-Chloroethylvinylether | < 50 | 50 | |
| Chloroform | < 5 | 5 | |
| Chloromethane | < 5 | 5 | |
| 2-Chlorotoluene | < 5 | 5 | |
| 4-Chlorotoluene | < 5 | 5 | |
| 1,2-Dibromo-3-chloropropane | < 5 | 5 | |
| Dibromochloromethane | < 5 | 5 | |
| 1,2-Dibromoethane (EDB) | < 5 | 5 | |
| Dibromomethane | < 5 | 5 | |
| 1,2-Dichlorobenzene | < 5 | 5 | |
| 1,3-Dichlorobenzene | < 5 | 5 | |
| 1,4-Dichlorobenzene | < 5 | 5 | |
| trans-1,4-Dichloro-2-butene | < 100 | 100 | |
| Dichlorodifluoromethane | < 5 | 5 | |
| 1,1-Dichloroethane | < 5 | 5 | |
| 1,2-Dichloroethane | < 5 | 5 | |
| 1,1-Dichloroethene | < 5 | 5 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| trans-1,2-Dichloroethene | < 5 | 5 | |
| 1,2-Dichloropropane | < 5 | 5 | |
| 1,3-Dichloropropane | < 5 | 5 | |
| 2,2-Dichloropropane | < 5 | 5 | |
| 1,1-Dichloropropene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 5 | 5 | |
| trans-1,3-Dichloropropene | < 5 | 5 | |
| Ethylbenzene | < 5 | 5 | |
| Ethyl methacrylate | < 100 | 100 | |

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***8260 QC Continued…***

| Method Blank (MB): | MB Results (ug/L) | Rep Lim (ug/L) |
|---|---|---|
| Hexachloro-1,3-butadiene | < 5 | 5 |
| 2-Hexanone | < 10 | 10 |
| n-Hexane | < 10 | 10 |
| Iodomethane | < 10 | 10 |
| Isopropylbenzene (Cumene) | < 5 | 5 |
| p-Isopropyltoluene | < 5 | 5 |
| Methylene chloride | < 5 | 5 |
| 4-Methyl-2-pentanone (MIBK) | < 10 | 10 |
| Methyl-tert-butyl-ether | < 5 | 5 |
| Naphthalene | < 5 | 5 |
| n-Propylbenzene | < 5 | 5 |
| Styrene | < 5 | 5 |
| 1,1,1,2-Tetrachloroethane | < 5 | 5 |
| 1,1,2,2-Tetrachloroethane | < 5 | 5 |
| Tetrachloroethene | < 5 | 5 |
| Toluene | < 5 | 5 |
| 1,2,3-Trichlorobenzene | < 5 | 5 |
| 1,2,4-Trichlorobenzene | < 5 | 5 |
| 1,1,1-Trichloroethane | < 5 | 5 |
| 1,1,2-Trichloroethane | < 5 | 5 |
| Trichloroethene | < 5 | 5 |
| Trichlorofluoromethane | < 5 | 5 |
| 1,2,3-Trichloropropane | < 5 | 5 |
| 1,2,4-Trimethylbenzene | < 5 | 5 |
| 1,3,5-Trimethylbenzene | < 5 | 5 |
| Vinyl acetate | < 10 | 10 |
| Vinyl chloride | < 2 | 2 |
| Xylene, M&P | < 5 | 5 |
| Xylene, 0rtho | < 5 | 5 |
| Xylene (total) | < 10 | 10 |
| Dibromofluoromethane (surrogate) | 80% | |
| 1,2-Dichloroethane-d4 (surrogate) | 85% | |
| Toluene-d8 (surrogate) | 75% | |
| 4-bromofluorobenzene (surrogate) | 73% | |
| Analysis Date/Time: | 05-23-11/15:42 | |
| Analyst Initials | tjg | |

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***8260 QC Continued…***

| Laboratory Control Standard (LCS): | LCS Results (ug/L) | LCS Conc(ug/L) | % Rec | Flag |
|---|---|---|---|---|
| Vinyl Chloride | 40.3 | 50 | 81% | |
| 1,1-Dichloroethene | 46.2 | 50 | 92% | |
| trans-1,2-Dichloroethene | 42.7 | 50 | 85% | |
| Methyl-tert-butyl-ether | 50.1 | 50 | 100% | |
| 1,1-Dichloroethane | 45.9 | 50 | 92% | |
| cis-1,2-Dichloroethene | 44.6 | 50 | 89% | |
| Chloroform | 45.8 | 50 | 92% | |
| 1,1,1-Trichloroethane | 40.9 | 50 | 82% | |
| Benzene | 44.6 | 50 | 89% | |
| Trichloroethene | 44.8 | 50 | 90% | |
| Toluene | 42.9 | 50 | 86% | |
| 1,1,1,2-Tetracholorethane | 47.3 | 50 | 95% | |
| Chlorobenzene | 45.3 | 50 | 91% | |
| Ethylbenzene | 44.7 | 50 | 89% | |
| o-Xylene | 44.1 | 50 | 88% | |
| N-propylbenzene | 45.8 | 50 | 92% | |
| Dibromofluoromethane (surrogate) | 80% | | | |
| 1,2-Dichloroethane-d4 (surrogate) | 82% | | | |
| Toluene-d8 (surrogate) | 79% | | | |
| 4-bromofluorobenzene (surrogate) | 82% | | | |
| Analysis Date/Time: | 05-23-11/15:15 | | | |
| Analyst Initials | tjg | | | |

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| Flag Number | Comments |
|---|---|

2011 ENVision Proj#: 1241 Page 1 of 1

# CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

| | |
|---|---|
| Client: Heartland Environmental | Invoice Address: Same |
| Report Address: 3410 Mishawaka Ave South Bend, IN 46615 | Project Name: UCA Sample Street |
| Report To: Nivas Vijay | Lab Contact: |
| Phone: 574.360.6961 | Sampled by: David Nye |
| Fax: 574.289.1191 | P.O. Number: |
| Desired TAT: (Please Circle One) 1-2 days 3-6 days Std (7 bus. days) | QA/QC Required: (circle if applicable) Level III Level IV |

**REQUESTED PARAMETERS**

8260 VOC

**Sample Integrity:**
Cooler Temp: 3.1 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

*Please indicate number of containers per preservative below*

| Sample ID | Coll. Date | Coll. Time | Comp (C) Grab (G) | Matrix | | | | | | | | HCl | $HNO_3$ | $H_2SO_4$ | NaOH | Other | None | ENVision Sample ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W-7 | 5.18.11 | 12:20 | G | W | 2 | | | | | | | | | | | | | 11-9791 |
| W-8 | 5.18.11 | 13:50 | G | W | 2 | | | | | | | | | | | | | 9792 |
| UNK-1 | 5.18.11 | 16:00 | G | W | 2 | | | | | | | | | | | | | 9793 |
| UNK-2 | 5.18.11 | 17:15 | G | W | 2 | | | | | | | | | | | | | 9794 |
| W-5 | 5.18.11 | 18:55 | G | W | 2 | | | | | | | | | | | | | 9795 |
| W-13 | 5.19.11 | 09:20 | G | W | 2 | | | | | | | | | | | | | 9796 |
| W-9 | 5.19.11 | 11:10 | G | W | 2 | | | | | | | | | | | | | 9797 |
| W-3 | 5.19.11 | 13:05 | G | W | 2 | | | | | | | | | | | | | 9798 |
| W-1 | 5.19.11 | 14:25 | G | W | 2 | | | | | | | | | | | | | 9799 |
| W-12 | 5.19.11 | 15:45 | G | W | 2 | | | | | | | | | | | | | 9800 |
| Trip Blank | 5.19.11 | | | W | 1 | | | | | | | | | | | | | 9801 |
| | | | | | | | | | | | | | | | | | | |

Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| David Nye | 5.19.11 | 17:35 | FED EX | | |
| | | | [illegible] | 5/20/11 | 830 |