

**REVISION 0  
FEDERAL ON-SCENE COORDINATOR'S REPORT  
COMPREHENSIVE ENVIRONMENTAL RESPONSE,  
COMPENSATION, AND LIABILITY ACT  
REMOVAL ACTION AT THE SOUTH BEND LATHE SITE  
SOUTH BEND, ST. JOSEPH COUNTY, INDIANA  
SITE ID: B5GB**

Prepared for:

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
Region V Emergency Response Branch  
77 W. Jackson Boulevard  
Chicago, Illinois 60604

Prepared by:

**WESTON SOLUTIONS, INC.**  
20 N. Wacker Drive  
Suite 1210  
Chicago, Illinois 60606

|                                |                   |
|--------------------------------|-------------------|
| Date Prepared:                 | November 12, 2007 |
| TDD Number:                    | S05-0003-0706-011 |
| Document Control Number:       | 216-2A-ABFB       |
| Contract Number:               | EP-S5-06-04       |
| WESTON START Project Manager:  | Sarah Meyer       |
| Telephone Number:              | (312) 424-3300    |
| U.S. EPA On-Scene Coordinator: | Kenneth Theisen   |

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Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
Jay Rauh, WESTON START Site Lead

Reviewed and  
Approved by:  \_\_\_\_\_ Date: \_\_\_\_\_  
Pamela Bayles, WESTON START Program Manager

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V**

**DATE:** November 15, 2007

**SUBJECT:** ON-SCENE COORDINATOR'S REPORT – CERCLA Removal Action at the South Bend Lathe Site, South Bend, St. Joseph County, Indiana, Site ID# B5GB

**FROM:** Kenneth Theisen, On Scene Coordinator  
Emergency Response Branch, SE-5J

**TO:** Linda Nachowicz, Chief  
Emergency Response Branch, S-6J

**THROUGH:** Michael Harris, Chief  
Division Superfund Section 2, SE-5J

Please find attached the United States Environmental Protection Agency (U.S. EPA) Federal On-Scene Coordinator's (OSC) Report for the removal action conducted at the South Bend Lathe Site (Site), South Bend, St. Joseph County, Indiana. This report follows the format outlined in the National Oil and Hazardous Substances Pollution Contingency Plan, 40 Code of Federal Regulations (CFR) 300.165. The removal was initiated on June 25, 2007, and was completed on August 3, 2007. The OSC for this Site was Mr. Kenneth Theisen.

U.S. EPA took this action to mitigate the threats posed by the presence of high levels of polychlorinated biphenyls (PCB) in transformers and oily waste at the Site, damaged and friable asbestos-containing material (ACM) debris on the floor and piping inside the building, and reactive and ignitable wastes in unlabeled containers, which posed an immediate threat to public health, welfare, and the environment. Total project costs under the control of the OSC are estimated at \$380,739 of which \$344,449 was for the Emergency and Rapid Response Services contractor.

In this report, any indications of specific costs incurred at the Site are only an approximation, subject to audit and final definitization by U.S. EPA. The OSC report is not a final reconciliation of costs.

Portions of this report's appendices may contain confidential business or enforcement-sensitive information and must be reviewed by the Office of Regional Counsel prior to release to the public. The Site is not on the National Priorities List.

Attachment  
cc: Gail Stanuch – SE-5J  
Carl Norman – SE-5J

FEDERAL ON-SCENE COORDINATOR'S REPORT  
COMPREHENSIVE ENVIRONMENTAL RESPONSE,  
COMPENSATION, AND LIABILITY ACT  
REMOVAL ACTION AT THE INGERSOLL SITE  
SITE ID: B5GB  
NPL STATUS: NON-NPL  
SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

Removal Dates: June 25, 2007, to August 3, 2007

UNITED STATES  
ENVIRONMENTAL PROTECTION AGENCY  
Region V  
Division of Superfund  
Emergency Response Branch

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### **Attachment**

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**Emergency and Enforcement Response Branch  
Office of Superfund, U.S. EPA, Region V**

**OSC REPORT STANDARD APPENDICES LIST \***

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Site ID No.: B5GB  
Task Order No.: 0079

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**Emergency and Enforcement Response Branch  
Office of Superfund, U.S. EPA, Region V  
OSC Report Standard Appendices List (cont'd)**

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- \* All files are arranged in chronological order.
  
- \* Portions of these OSC Report Appendices may contain confidential business information or enforcement-sensitive information and must be reviewed by the Office of Regional Counsel prior to release to the public.
  
- \* Note that certain files for this Site are maintained elsewhere by the Emergency Response Branch; these appendices are those files maintained by the OSC during the removal action.



## **EXECUTIVE SUMMARY OF THE REMOVAL ACTIVITY**

**SITE:** South Bend Lathe Site

**LOCATION:** South Bend, St. Joseph County, Indiana

**PROJECT DATES:** June 25, 2007, through August 3, 2007.

### **INCIDENT DESCRIPTION:**

The Site, located at 400 West Sample Street, South Bend, St. Joseph County, Indiana (Figure 1), is in an industrial/commercial area (Figure 2). The Site is approximately 15 acres, and includes a 440,000 square-foot industrial building (Facility), old rail lines, and parking areas. The Facility, which is located at the northern property line, parallel to Sample Street, consists of warehouse/storage space; press-machining, grinding, and cutting equipment; and maintenance and office space. The Site is bounded to the north by Sample Street, to the east by Franklin Street, to the south by commercial/industrial properties, and to the west by Chapin Street.

The Site was originally part of the Studebaker Motor Company and housed an engine plant and machine shop until 1963. Until approximately 2002, the Site manufactured industrial lathes under a variety of owners. Other historical details concerning the Site include:

- From 1964 to 2002, the Site was used for industrial purposes including lathe manufacturing.
- CJ Wood purchased the property from Studebaker in 1964 and sold the property to South Bend Lathe in February 1965.
- The Site was conveyed from South Bend Lathe to Amsted Industries in September 1965.
- Amsted Industries sold the property to LWE in July 1975. LWE became South Bend Lathe.
- South Bend Lathe sold the property to Turnmaster Corporation in January 1993.
- Turnmaster Corporation sold the Site to the ARG Corporation in May 2000.
- On December 16, 2006, the City of South Bend purchased the Site from the ARG Corporation with the intention of clearing the Site for new development.
- The building is currently vacant.

The Site was initially investigated in 1993 by Environmental Engineers, Inc., (EIS), at the request of then owner Turnmaster Corporation of Carson, California. EIS conducted an environmental investigation to determine the presence of soil or groundwater contamination near five underground storage tanks (UST) and sampled roof material that may have been asbestos-containing material (ACM). The investigation included advancing eight soil borings for soil and groundwater sampling. Total petroleum hydrocarbons (TPH) were detected in the soil and groundwater. In addition, EIS collected samples of roof tiles and found trace amounts of ACM. In 2001, Hull and Associates, Inc., (Hull) conducted Phase I and initial Phase II Environmental Site Assessments (ESA) at the Site at the request of the City of South Bend. During the Phase I ESA, Hull identified thirteen recognized environmental concerns (REC) at the Site. Several of the identified RECs included USTs containing gasoline, motor oil, fuel oil, waste oil, and unknown contents. Other RECs included oil staining, stressed vegetation, former rail lines, and potential polychlorinated biphenyl (PCB) releases from

transformers. Hull discovered that degreasing operations took place at the Site, which included the use of chlorinated solvents including tetrachloroethylene (PERC). During the initial Phase II ESA, Hull discovered the following constituents above Indiana Department of Environmental Management Risk Integrated System of Closure (RISC) default cleanup levels in soil: benzo(a)pyrene, lead, cadmium, chromium, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene. Other constituents, including arsenic, lead, trichloroethylene, PERC, and vinyl chloride were detected in groundwater above RISC default cleanup levels.

Previous investigations have shown that the Site's geology consists of surficial fill over approximately 75 feet of sand and gravel. The water table is approximately 25 feet below ground surface in an unconfined aquifer. Groundwater flow is to the northeast toward the St. Joseph River, located one mile from the Site.

**ACTIONS:** The Site was unsecured and previous investigations indicated the presence of high levels of PCBs in transformers and oily waste, damaged and friable ACM debris on the floor and piping inside the building, and reactive and ignitable wastes in unlabeled containers, which posed an immediate threat to public health, welfare, and the environment. Therefore, the United States Environmental Protection Agency (U.S. EPA) approved an Action Memorandum for the Site on April 12, 2007. The Action Memorandum requested a Comprehensive Environmental Response, Compensation, and Liability Act time-critical removal action at the Site.

U.S. EPA; the Weston Solutions, Inc., (WESTON®) Superfund Technical Assessment and Response Team (START); and Environmental Quality Management (EQM), the Emergency and Rapid Response Services (ERRS) contractor, mobilized to the Site on June 25, 2007, to begin removing ACM from the building PCB transformers from vaults and basements; oils, sludges, and associated USTs and containers; and PCB-contaminated soil and oil.

Removal activities were completed on August 3, 2007. ERRS arranged for the transportation and disposal of 75,846 kilograms of liquid PCBs, 1,155 gallons of PCB-contaminated liquid, 25 kilograms of PCB-contaminated debris, 30 cubic yards of ACM, 1,300 gallons of waste flammable liquid (D001), 1,105 gallons of waste paint-related material, 740 gallons of non-Department of Transportation/ non-Resource Conservation and Recovery Act hazardous liquid, 50 pounds of flammable aerosols, 75 cubic yards of oil-contaminated soil, and one gallon of elemental mercury.

---

Kenneth Theisen, On-Scene Coordinator  
U.S. EPA, Region V  
Chicago, Illinois

## **I. SUMMARY OF EVENTS**

### **A. SITE CONDITIONS AND BACKGROUND**

#### **1. Initial Situation**

South Bend Lathe, located at 400 West Sample Street, South Bend, St. Joseph County, Indiana, (Site) is in an industrial/commercial area (Figure 1, Figure 2). The Site is approximately 15 acres and includes a 440,000 square-foot industrial building (Facility), old rail lines, and parking areas. The Facility, which is located at the northern property line, parallel to Sample Street, consists of warehouse/storage space; press-machining, grinding, and cutting equipment; and maintenance and office space. The Site is bounded to the north by Sample Street, to the east by Franklin Street, to the south by commercial/industrial properties, and to the west by Chapin Street.

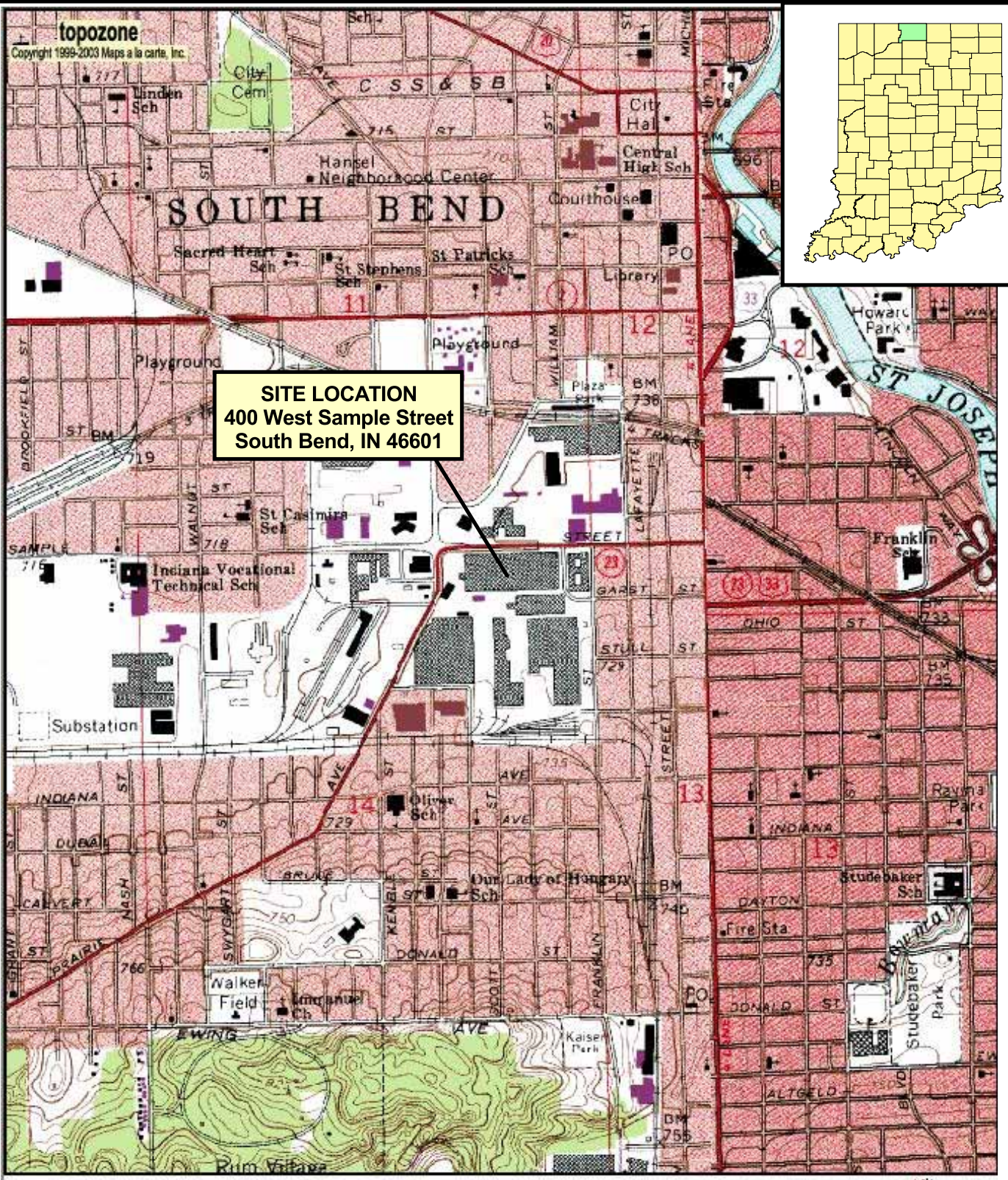
The Site was originally part of the Studebaker Motor Company and housed an engine plant and machine shop until 1963. Until approximately 2002, the Site manufactured industrial lathes under a variety of owners. Other historical details concerning the Site include:

- From 1964 to 2002, the Site was used for industrial purposes including lathe manufacturing.
- CJ Wood purchased the property from Studebaker in 1964 and sold the property to South Bend Lathe in February 1965.
- The property was conveyed from South Bend Lathe to Amsted Industries in September 1965.
- Amsted Industries sold the property to LWE in July 1975. LWE became South Bend Lathe.
- South Bend Lathe sold the property to Turnmaster Corporation in January 1993.
- Turnmaster Corporation sold the Site to the ARG Corporation in May 2000.
- On December 16, 2006, the City of South Bend purchased the Site from the ARG Corporation with the intention of clearing the Site for new development.
- The building is currently vacant.

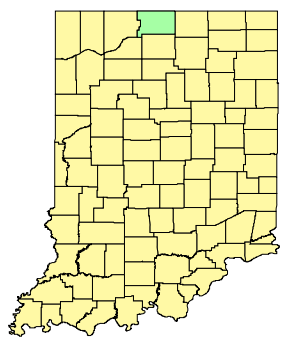
The Site was initially investigated in 1993, by Environmental Engineers, Inc., (EIS), at the request of then owner Turnmaster Corporation of Carson, California. EIS conducted an environmental investigation to determine the presence of soil or groundwater contamination near five underground storage tanks (UST) and sampled roof material that may have been asbestos-containing material (ACM). The investigation included advancing eight soil borings for soil and groundwater sampling. Total petroleum hydrocarbons (TPH) were detected in the soil and groundwater. In addition, EIS collected samples of roof tiles and found trace amounts of ACM. In 2001, Hull and Associates, Inc., (Hull) conducted Phase I and initial Phase II Environmental Site Assessments (ESA) at the Site at the request of the City of South Bend. During the Phase I ESA, Hull identified 13 recognized environmental conditions (REC) at the Site. Several of the identified RECs included USTs containing gasoline, motor oil, fuel oil, waste oil, and unknown contents. Other RECs included oil staining, stressed vegetation, former rail lines, and potential polychlorinated biphenyl (PCB) releases from transformers. Hull discovered that degreasing operations took place at the Site, which included

the use of chlorinated solvents including tetrachloroethylene (PERC). During the initial Phase II ESA, Hull discovered the following constituents above Indiana Department of Environmental Management (IDEM) Risk Integrated System of Closure (RISC) default cleanup levels in soil: benzo(a)pyrene, lead, cadmium, chromium, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene. Other constituents, including arsenic, lead, trichloroethylene, PERC, and vinyl chloride were detected in groundwater above RISC default cleanup levels.

Previous investigations have shown that the Site's geology consists of surficial fill overlaying approximately 75 feet of sand and gravel. The water table is approximately 25 feet below ground surface in an unconfined aquifer. Groundwater flow is to the northeast toward the St. Joseph River, located one mile from the Site.



**SITE LOCATION**  
 400 West Sample Street  
 South Bend, IN 46601



Notes: Topographic photo obtained from topozone.com  
 USGS 7.5 Minute topographic maps  
 South Bend West, Indiana Quad  
 41.6636 N, 86.2583 W

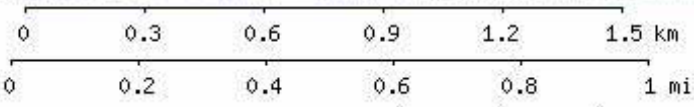


Figure 1

NJW D:\Location Maps\South Bend\SouthBend.d.apr



Prepared For:  
**U.S. EPA REGION V**  
 Contract No.: EP-S5-06-04  
 TDD: S05-0706-011  
 DCN: 216-2A-ABFB

**WESTON** Prepared By:  
**WESTON SOLUTIONS, INC.**  
 750 East Bunker Court  
 Vernon Hills, IL 60061

Site Location Map  
 South Bend Lathe Removal  
 South Bend, Indiana  
 November 2007



Figure 2

**LEGEND**

- 5,000 gallon UST
- 20,000 gallon UST
- Approximate Site Boundary

0 400 Feet



Notes:  
 Aerial photo obtained from  
 Indiana Spatial Data Portal  
 South Bend West  
 SE Indiana Quarter Quad  
 UST=Underground Storage Tank

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**WESTON** Prepared By:  
**WESTON SOLUTIONS, INC.**  
 750 East Bunker Court  
 Vernon Hills, IL 60061

Aerial Site Map  
 South Bend Lathe Removal  
 South Bend, Indiana  
 November 2007

## **2. Location of Hazardous Substance(s)**

In January 2007, the United States Environmental Protection Agency (U.S. EPA) and the Weston Solutions, Inc., (WESTON®) Superfund Technical Assessment and Response Team (START) conducted a Site Assessment: During this investigation, WESTON START collected 18 samples at the Site: six drum samples, two small-container samples, three UST samples, three potential ACM samples, one pit sample, two transformer samples, and one sample of floor sweepings.

Analytical results for the samples collected by WESTON START included:

- Asbestos samples contained up to 90 percent (%) chrysotile.
- Drum samples yielded heat contents of up to 14,900 British thermal units (BTU), and flashpoints as low as 72.2 degrees Fahrenheit.
- Drum samples contained 2-Butanone, PERC, ethylbenzene, toluene, and total xylenes at concentrations up to 13,700 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ); 2,130  $\mu\text{g}/\text{kg}$ ; 4,680  $\mu\text{g}/\text{kg}$ ; 1,050  $\mu\text{g}/\text{kg}$ ; and 16,200  $\mu\text{g}/\text{kg}$ , respectively.
- UST samples contained high concentrations of gasoline-range organics (372,000 milligrams per kilogram [ $\text{mg}/\text{kg}$ ]) and diesel-range organics (1,040,000  $\text{mg}/\text{kg}$ ).
- Transformer samples contained total PCB concentrations up to 421,000  $\text{mg}/\text{kg}$ .

In addition, mercury switches and switching gear were identified at the Site.

On April 12, 2007, based on the results of previous investigations, which indicated the presence of ACM, volatile organic compounds (VOC) in drum liquids, and PCBs in soil and/or groundwater at concentrations that exceeded human and environmental health and welfare risk criteria, U.S. EPA approved an Action Memorandum for the Site, and requested a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) time-critical removal action to mitigate site hazards.

## **3. Cause of Release or Discharge**

ACM, oil, and PCBs were commonly used at manufacturing facilities that were active during the same time that the Site was active. ACM was used as insulation on steam pipes and thermal system elements until 1989 when U.S. EPA issued a rule banning most ACM products. Likewise, PCBs were added to oils and paints used in and around heat-producing equipment, such as transformers, until 1979 when U.S. EPA banned the manufacture of PCBs and began to phase out PCBs in manufacturing. Spills and releases of these materials during and after Site operation could have led to the conditions at the Site at the time of the U.S. EPA site assessment.

## **4. Efforts to Obtain Response by Responsible Party**

The following entities owned the South Bend Lathe Site, according to the Chain of Title:

- CJ Wood purchased the property from Studebaker in 1964 and sold the property to South Bend Lathe in February 1965.
- The property was conveyed from South Bend Lathe to Amsted Industries in September 1965.
- Amsted Industries sold the property to LWE in July 1975. LWE became South Bend

Lathe.

- South Bend Lathe sold the property to Turnmaster Corporation in January 1993.
- Turnmaster Corporation sold the Site to the ARG Corporation in May 2000.
- On December 16, 2006, the City of South Bend purchased the Site from the ARG Corporation with the intention of clearing the Site for new development.

EPA is seeking information to determine if ownership of any of the waste materials can be traced back to the previous owners. General notice letters were issued to several previous owners and officers, including Norbert Toubes, an officer for both ARG Corporation and Turnmaster Corporation. Information request letters were issued to identify any additional liability information and insurance coverage information.

If additional information is uncovered during the investigation of the former owners of the Site which shows that the potentially responsible parties (PRP) involved are both liable and viable, the appropriate administrative order will be issued. Since the removal action was conducted as Funded, cost recovery will be pursued as well as potential recovery of government funds via the former owner's insurance coverage.

## **B. ORGANIZATION OF RESPONSE**

U.S. EPA, WESTON START, and Environmental Quality Management (EQM), the Emergency and Rapid Response Services (ERRS) contractor, mobilized to the Site on June 25, 2007. Consistent with the U.S. EPA Action Memorandum, the team began removing ACM; oils, sludges, and PCB-contaminated oils from tanks; and excavating PCB- and oil-contaminated soil. Table 1 summarizes the organization of the response.



**Table 1  
Organization of the Response  
South Bend Lathe Removal Site  
South Bend, St. Joseph County, Indiana**

| Agencies or Parties Involved  | Contact         | Description of Participation   |
|---|-----------------|--|
| U.S. EPA – Region V<br>Division of Superfund<br>Emergency Response Branch<br>77 West Jackson Boulevard<br>Chicago, Illinois 60604<br>(312) 886-7182 | Kenneth Theisen | Federal OSC responsible for overall project oversight and success.   |
| Weston Solutions, Inc.<br>20 North Wacker Drive<br>Suite 1210<br>Chicago, Illinois 60606<br>(312) 424-3300  | Sarah Meyer     | WESTON START project manager responsible for START direction and START-related project success.  |
| Weston Solutions, Inc.<br>20 North Wacker Drive<br>Suite 1210<br>Chicago, Illinois 60606<br>(312) 424-3300  | Jay Rauh        | WESTON START on-site representative responsible for removal oversight support, documentation, air monitoring, sampling, and START-related cost-tracking.   |
| Environmental Quality Management, Inc.<br>1800 Carillon Boulevard<br>Cincinnati, Ohio<br>(800) 500-0575   | Jeff Rhinefield | Response manager responsible for direction of daily ERRS activity. Provided personnel and equipment necessary for removal and coordinated transportation and disposal of waste streams. Also tracked ERRS-related costs. |
| City of South Bend<br>227 W. Jefferson Boulevard<br>Suite 1200 S<br>South Bend, Indiana 46601<br>(574) 245-6112                                     | Andy Laurent    | Community and Economic Development: Project manager who has worked closely with U.S. EPA during all phases of the removal action.  |

ERRS – Emergency and Rapid Response Services

OSC – On-Scene Coordinator

START – Superfund Technical Assessment and Response Team

U.S. EPA – United States Environmental Protection Agency

WESTON – Weston Solutions, Inc.

**1. Content and Time of Notice to Natural Resource Trustees**

(Not Applicable)

## **2. Trustee Damage Assessment and Restoration Activities**

(Not Applicable)

### **D. CHRONOLOGICAL NARRATIVE OF RESPONSE ACTIONS**

#### **1. Threat Abatement Actions Taken**

U.S. EPA, WESTON START, and the ERRS contractor mobilized to the Site on June 25, 2007, and began setup activities, at which time security was established for the Site during non-working hours for the duration of the removal. Removal activities commenced on July 30, 2007.

From June 25, 2007, through June, 29, 2007, WESTON START performed the following removal activities at the Site:

- Conducted air monitoring at the Site perimeter near work areas using a MultiRAE five-gas photo-ionization detector (PID). MultiRAE readings for VOC vapor, carbon monoxide, hydrogen sulfide, and percent of the lower explosive limit were below the limits of detection and oxygen levels were 20.9%.
- Throughout the duration of the project, a total of one solid sample, 10 asbestos air samples, five soil samples, one liquid (aqueous) sample, and one flammable liquid sample were collected by WESTON START and ERRS. Sampling dates, locations, and results are presented in Attachments B1 through B12. Laboratory data reports and sample chains of custody are located in the site files.
- Collected eight-hour personnel and perimeter air samples for asbestos. Beginning on June 26, 2007, and continuing through July 5, 2007, WESTON START collected daily asbestos air samples during asbestos removal operations. WESTON START collected a total of five personnel air samples for asbestos and five perimeter air samples for asbestos. Throughout the removal, concentrations of asbestos in the air samples did not exceed 0.1 fibers per cubic centimeter (f/cc), the Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL) for asbestos fibers, or 0.01 f/cc, the Asbestos Hazard Emergency Response Act criterion for protection against airborne asbestos fibers in public areas. Results for personnel and perimeter air sampling for asbestos are summarized in Attachment B1. Laboratory data reports and sample chains of custody are located in the Site files.
- Tested the pH of liquid in plating vats inside room 7241 (Figure 3) which had been previously uncharacterized by the removal team. On June 29, 2007, using field testing techniques, WESTON START member Jay Rauh determined that the liquids had pH readings up to 11.

From June 25, 2007, through June 29, 2007, ERRS performed the following removal activities:

- Setup asbestos work zone areas in high traffic areas. The goal was not to completely abate asbestos from the facility, but to remove it from high-traffic areas so that removal activity could commence safely.
- On June 25, 2007, ERRS Response Manager (RM) Jeff Rhinefield collected sample PCB VAULT-TILE from material near PCB transformers in the west transformer room

(Figure 3) that appeared to be ACM. Laboratory results confirmed that the sample was composed of 78% chrysotile. The tiles were disposed of with the other ACM abated from the Site.

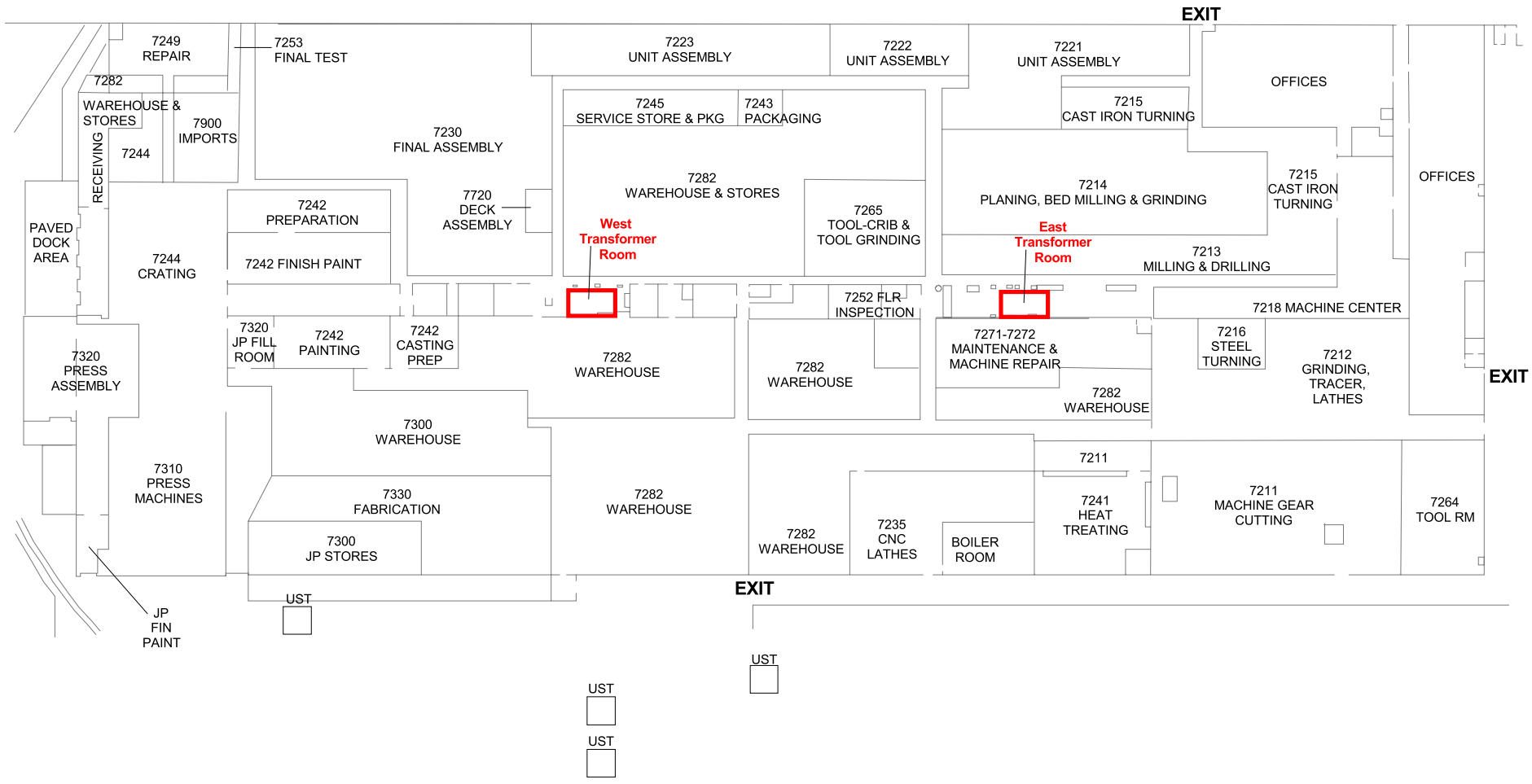
- Abated asbestos tiles and pipe insulation in two transformer rooms.
- Excavated the soil and pavement above four USTs south of the site building and along the southern property line (three 20,000-gallon capacity and one 5,000-gallon capacity) and opened the manways for liquid removal.
- Explored anomalies in the east and northeast parking lots by trenching with a trackhoe. No additional USTs were discovered, although a sand-filled vault and tunnel complex were found. These were reported to be remnants of a former Studebaker underground steam tunnel complex.
- Began staging drums and small containers in preparation for hazard categorization (HAZCAT).
- Mobilized off-hour security.

Asbestos and lead air sampling results were reviewed and tabulated daily upon receipt from the laboratory. Although there were no exposure-limit exceedances, safe asbestos practices were discussed between the OSC, WESTON START, and ERRS. ERRS took steps to reduce the amount of fibers and particulates in the air using techniques such as wetting or installing additional work enclosures. At the direction of the U.S. EPA OSC, site work that included debris and asbestos removal continued in Level C personal protective equipment (PPE) for the duration of the removal despite personnel air sampling results that were within the OSHA PEL guidelines.



From July 5, 2007, through July 7, 2007, WESTON START performed the following removal activities at the Site:

- Continued air sampling and monitoring consistent with methods described previously.
- Detected an unknown VOC with the MultiRAE after dewatering the floor in the west transformer room. Dewatering was done after completion of asbestos abatement, but before transformer removal. WESTON START Rauh recorded a VOC reading of 5.0 parts per million (ppm). WESTON START recommended that all work stop in that room until appropriate PPE was mobilized. OSC Theisen and RM Rhinefield agreed that ERRS and ERRS subcontractors would don level C PPE while continuously venting the room any time work was performed. WESTON START continued to monitor the room before and during any work activity in that room. No readings above 0.5 ppm were recorded during work activity. There were no elevated VOC readings in the east transformer room.
- Tested the pH of a gold/brown powder found in the floor of room 7241 (the plating room). WESTON START member Rauh measured the pH of the powder by putting the powder in a solution of purified water. pH readings up to 11 were recorded.

NJW D:\Location Maps\South Bend\South Bend\South Bend.d.apr



**LEGEND**


-  Building Layout
-  Transformer Basements



*NOTE:*  
*Drawing not to scale*

UST= Underground Storage Tanks

Figure 3

 Prepared For:  
**U.S. EPA REGION V**  
 Contract No.: EP-S5-06-04  
 TDD: S05-0706-011  
 DCN: 216-2A-ABFB

 Prepared By:  
**WESTON SOLUTIONS, INC.**  
 750 East Bunker Court  
 Vernon Hills, IL 60061

Site Features Map  
 South Bend Lathe Removal  
 South Bend, Indiana  
 November 2007

From July 5, 2007, through July 7, 2007, ERRS performed the following removal activities at the Site:

- Continued abating asbestos from transformer rooms and high traffic areas.
- Removed steel plates above transformers for venting VOCs and for future transformer removal.
- Mobilized a carbon treatment system to treat aqueous wastes before discharge into the City of South Bend sewer system.
- Began excavating three 20,000 gallon USTs located on the southern portion of the property.
- Set up an exhaust fan through the roof of the west transformer room to vent VOC vapors.
- Staged drums and small containers in preparation for HAZCATting.

From July 9, 2007, through July 13, 2007, WESTON START performed the following removal activities at the Site:

- Continued air sampling and monitoring consistent with methods described previously.
- Collected one composite clearance soil sample beneath the north 20,000 gallon UST (SBL-S001-071207). Sample material was taken from the sidewalls and beneath the UST. The soil contained 120 mg/kg-dry of TPH and 0.046 mg/kg-dry of PCB Aroclor 1260. OSC Theisen instructed ERRS to backfill the excavation based on the results. Sampling locations are illustrated on Figure 4.

From July 9, 2007, through July 13, 2007, ERRS performed the following removal activities at the Site:

- Mobilized a roll-off container for ACM disposal.
- Appropriately labeled container and bags of ACM waste.
- Mobilized a tanker to take approximately 4,545 kilograms of low-level PCB-contaminated oily liquid from the north and east 20,000 gallon USTs.
- Excavated the north 20,000 gallon UST.
- Mobilized HAZCAT specialist Mark Douglas of EQM to begin HAZCATting previously staged and logged drums and containers.
- Completed HAZCATting and segregating wastes.
- Decontaminated a 20,000 gallon UST with power washers so that the tank could be sold as scrap. ERRS donned Level C PPE for this activity while WESTON START Rauh monitored the work area with a MultiRAE. ERRS used a confined space entry program and vented the work space by cutting large holes on either end of the tank.
- Removed apparent plating wastes and ACM from room 7241.

On July 12, 2007, U.S. EPA health and safety auditor Bill Boyett performed a health and safety audit at the Site.

Also on July 12, 2007, U.S. EPA and City of South Bend officials conducted a media event to convey future plans for the Site to the public.

From July 16, 2007, through July 20, 2007, WESTON START performed the following removal activities at the Site:

- Continued monitoring consistent with methods described previously.
- Collected two composite clearance soil samples (SBL-002-071607 and SBL-003-071607) from the soil beneath the southern and eastern 20,000-gallon USTs. The sampling results indicated that the soil contained 1,600 mg/kg-dry and 29 mg/kg-dry, respectively, of TPH. Based on sampling results, OSC Fredrick Micke instructed ERRS to backfill the 20,000 gallon UST excavation. OSC Micke was at the Site on several days throughout the removal action when OSC Theisen was not available.
- Collected one liquid (aqueous) sample (SBL-W001-071907). The sample was collected of wastewater that had been treated on site with the mobile water treatment unit. The wastewater was generated from dewatering the transformer rooms and rainwater accumulation in the 5,000 gallon UST. PCB Aroclor 1260 was detected at 0.038 milligrams per liter in the sample. At the direction of OSC Theisen, the water was discharged to the City of South Bend sewer system after sampling through the manhole located south of the southwest entrance to the building (see sample location on Figure 4).
- Collected a sample of hydrocarbon-stained soil (SBL-S004-072007) from the bottom and sidewalls of the 5,000-gallon UST excavation. The sample was analyzed for disposal parameters. The sampling results indicated that the soil contained 1,800 mg/kg-dry of TPH. OSC Micke instructed ERRS to excavate obvious petroleum staining before collecting a clearance sample.
- Conducted a health and safety audit. WESTON START project manager Sarah Meyer was at the Site on July 16, 2007, to perform the audit.

From July 16, 2006, through July 20, 2007, ERRS performed the following removal activities at the Site:

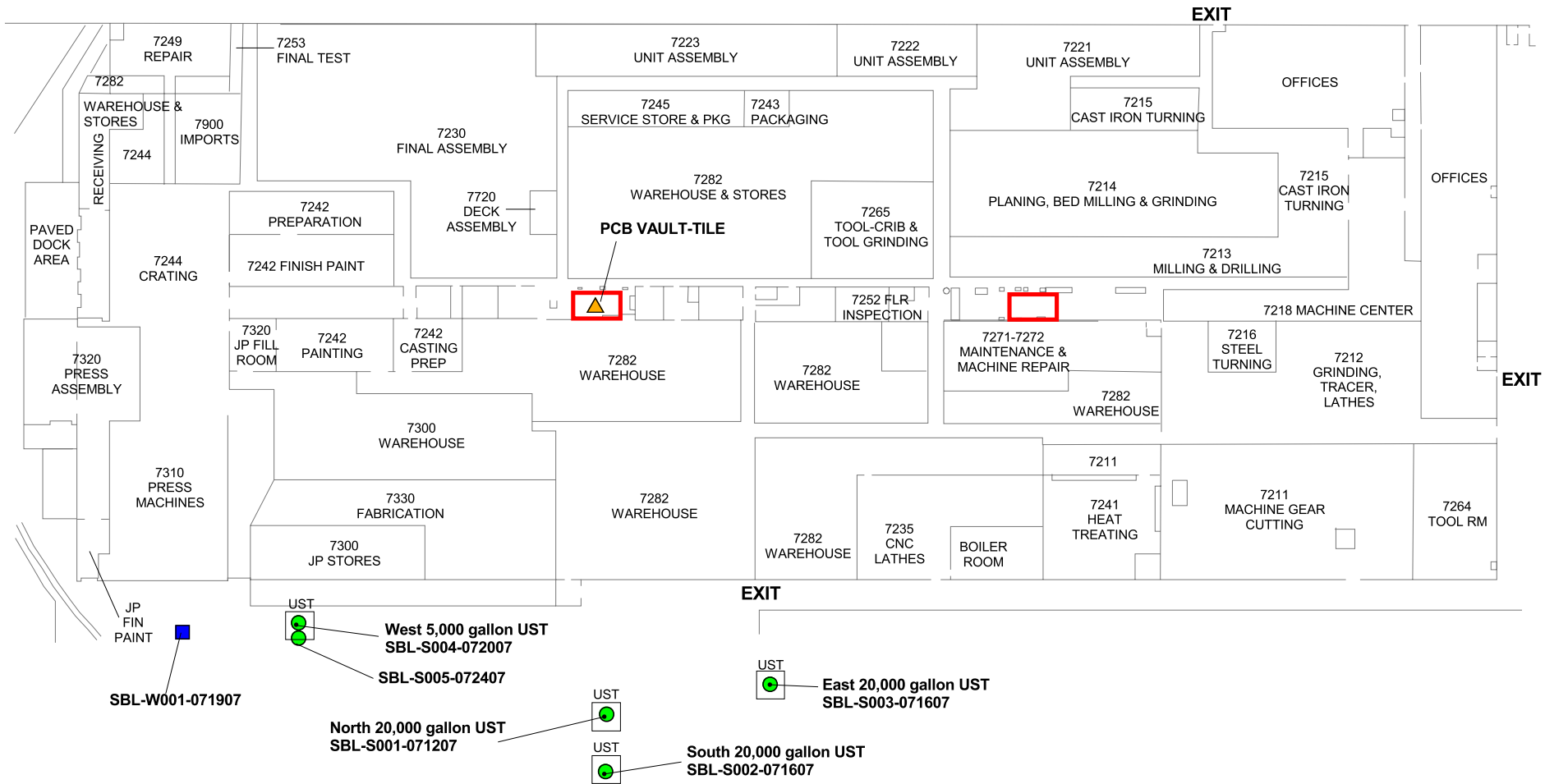
- Continued decontamination of 20,000-gallon USTs.
- Arranged for all three 20,000-gallon USTs to be sold as scrap and hauled off the Site.
- Treated wastewater that had been drained from transformer rooms and the 5,000 gallon UST by neutralizing and pumping it through a carbon treatment system before discharge.
- Continued segregating wastes in small containers and containerized high pH, apparent plating wastes.
- Removed the remaining 5,000-gallon UST.
- Began excavating the oil-contaminated soil around the 5,000-gallon UST.
- Disposed of approximately 36,908 kilograms of PCB-contaminated liquid (Table 2).
- Moved caustic powders (pH 11 in solution) and floor debris from room 7241 and consolidated them with appropriate waste streams.

From July 23, 2007, through July 27, 2007, WESTON START performed the following removal activities at the Site:

- Air sampling and monitoring consistent with methods described previously.

- Briefed transformer removal subcontractors, Clean Harbors, on health and safety practices and gained health and safety plan sign-off from their four-member team.
- Screened both transformer rooms with a MultiRAE during all transformer removal activities. The highest recorded reading was 0.02 ppm of VOCs in the west transformer room. Clean Harbors donned Level C PPE during transformer removal activities.
- Collected one composite clearance soil sample beneath the west 5,000-gallon UST (SBL-S005-072407). Sample material was taken from the excavation sidewalls and beneath the UST. The soil contained 170 mg/kg-dry of TPH and 0.091 mg/kg-dry of PCB Aroclor 1260. OSC Theisen instructed ERRS to backfill the excavation based on these results.

N:\JW D:\Location Maps\South Bend\SouthBend.d.gis



**LEGEND**

- Building Layout
- Transformer Basements
- Soil Sampling Location
- Aqueous Sampling Location
- Asbestos Sampling Location



NOTE:  
Drawing not to scale

Figure 4

Prepared For:  
**U.S. EPA REGION V**  
 Contract No.: EP-S5-06-04  
 TDD: S05-0706-011  
 DCN: 216-2A-ABFB

**WESTON** Prepared By:  
**WESTON SOLUTIONS, INC.**  
 750 East Bunker Court  
 Vernon Hills, IL 60061

Sample Location Map  
 South Bend Lathe Removal  
 South Bend, Indiana  
 November 2007



**South Bend Lathe Removal**  
**Table 2 - Waste Materials and Disposal Summary**  
**June 25, 2007 to August 3, 2007**

| <b>Waste Description</b>                                 | <b>Quantity</b>                       | <b>Date Shipped</b> | <b>Manifest Number/ Waste Shipment Number</b> | <b>Transporter Name and Location</b> | <b>Disposal Method</b> | <b>Disposal Facility Name and Location</b>  |
|--|---------------------------------------|---------------------|---|--------------------------------------|------------------------|---|
| RQ, Polychlorinated Biphenyls, Liquid, 9, UN2315, PG II  | 4,545 KG                              | 7/10/07             | 000051319VES                                  | Triad Transport, Inc.                | Incineration           | Veolia Technical Solutions<br>Highway 73<br>3.5 miles west of Taylor's Bayou<br>Port, Arthur, Texas 77640 |
| RQ, Polychlorinated Biphenyls, Liquid, 9, UN2315, PG II  | 19,636 KG                             | 7/16/07             | 000051320VES                                  | Triad Transport, Inc.                | Incineration           | Veolia Technical Solutions<br>Highway 73<br>3.5 miles west of Taylor's Bayou<br>Port, Arthur, Texas 77640 |
| RQ, Polychlorinated Biphenyls, Liquid, 9, UN2315, PG II  | 17,272 KG                             | 7/16/07             | 000051320VES                                  | Triad Transport, Inc.                | Incineration           | Veolia Technical Solutions<br>Highway 73<br>3.5 miles west of Taylor's Bayou<br>Port, Arthur, Texas 77640 |
| RQ, Polychlorinated Biphenyls, Liquid, 9, UN2315, PG III | (8 totes, 1,920 KG each)<br>15,363 KG | 7/24/07             | 000994550FLE                                  | Clean Harbors Environmental Service  | Incineration           | Clean Harbors LLC<br>1302 West 38 <sup>th</sup> Street<br>Ashtabula, Ohio 44004                           |
| RQ, Polychlorinated Biphenyls, Liquid, 9, UN2315, PG III | 2 Transformers,<br>5,909 KG           | 7/26/07             | 000994570FLE                                  | Clean Harbors Environmental Service  | Incineration           | Clean Harbors LLC<br>1302 West 38 <sup>th</sup> Street<br>Ashtabula, Ohio 44004                           |
| RQ, Polychlorinated Biphenyls, Liquid, 9, UN2315, PG III | 3 Transformers,<br>13,121 KG          | 7/26/07             | 000994571FLE                                  | Clean Harbors Environmental Service  | Incineration           | Clean Harbors LLC<br>1302 West 38 <sup>th</sup> Street<br>Ashtabula, Ohio 44004                           |

**South Bend Lathe Removal**  
**Table 2 - Waste Materials and Disposal Summary (Continued)**  
**June 25, 2007 to August 3, 2007**

| <b>Waste Description</b>   | <b>Quantity</b> | <b>Date Shipped</b> | <b>Manifest Number/ Waste Shipment Number</b> | <b>Transporter Name and Location</b>                         | <b>Disposal Method</b> | <b>Disposal Facility Name and Location</b>                                      |
|--|-----------------|---------------------|---|--|------------------------|---|
| RQ, Polychlorinated Biphenyls, Solid, 9, UN3432, PG III                              | 25 KG           | 7/26/07             | 000994571FLE                                  | Clean Harbors Environmental Service                          | Incineration           | Clean Harbors LLC<br>1302 West 38 <sup>th</sup> Street<br>Ashtabula, Ohio 44004 |
| Glass, Plastic, Paper, Wood, PPE Containing Asbestos                                 | 30 CY           | 7/27/07             | 051906-1                                      | Allied Waste Services<br>57820 Charlotte Ave.<br>Elkhart, IN | Landfill               | County Line Landfill<br>OS 31<br>Argos, Indiana 46501                           |
| RQ, Waste Flammable Liquid, N.O.S., 3, UN1993, PG II, (Mineral Spirits, Oil), (D001) | 1,300 GAL       | 7/27/07             | 003369129JJK                                  | Nortru Transportation  | Treatment              | Petro-Chem Processing<br>421 Lycaste<br>Detroit, Michigan 48214                 |
| RQ Waste Paint Related Material, 3, UN1263, PG II, (D001)                            | 1,050 GAL       | 7/27/07             | 003369133JJK                                  | Nortru Transportation  | Treatment              | Petro-Chem Processing<br>421 Lycaste<br>Detroit, Michigan 48214                 |
| RQ Waste Paint Related Material, 3, UN1263, PG II                                    | 55 GAL          | 7/27/07             | 003369133JJK                                  | Nortru Transportation  | Treatment              | Petro-Chem Processing<br>421 Lycaste<br>Detroit, Michigan 48214                 |
| Waste Aerosols, Flammable, 2.1 UN 1950, PG II  | 50 LBS          | 7/27/07             | 003369133JJK                                  | Nortru Transportation  | Treatment              | Petro-Chem Processing<br>421 Lycaste<br>Detroit, Michigan 48214                 |
| Universal Waste – Mercury Containing Devices, Not DOT Regulated, (Mercury Switches)  | 1 GAL           | 7/27/07             | 003369133JJK                                  | Nortru Transportation  | Recycled               | Petro-Chem Processing<br>421 Lycaste<br>Detroit, Michigan 48214                 |

**South Bend Lathe Removal**  
**Table 2 - Waste Materials and Disposal Summary (Continued)**  
**June 25, 2007 to August 3, 2007**

| <b>Waste Description</b>   | <b>Quantity</b> | <b>Date Shipped</b> | <b>Manifest Number/ Waste Shipment Number</b> | <b>Transporter Name and Location</b> | <b>Disposal Method</b> | <b>Disposal Facility Name and Location</b>   |
|--|-----------------|---------------------|---|--------------------------------------|------------------------|--|
| Non-DOT/Non-RCRA Hazardous Liquid  | 300 GAL         | 7/27/07             | 003369133JJK                                  | Nortru Transportation                | Treatment              | Petro-Chem Processing<br>421 Lycaste<br>Detroit, Michigan 48214                            |
| Non-DOT/Non-RCRA Hazardous Liquid  | 300 GAL         | 7/27/07             | 003369133JJK                                  | Nortru Transportation                | Treatment              | Petro-Chem Processing<br>421 Lycaste<br>Detroit, Michigan 48214                            |
| Non-DOT/Non-RCRA Hazardous Liquid  | 140 GAL         | 7/27/07             | 003369133JJK                                  | Nortru Transportation                | Treatment              | Petro-Chem Processing<br>421 Lycaste<br>Detroit, Michigan 48214                            |
| RQ Hazardous Waste, Liquid, N.O.S. (Polychlorinated biphenyls, benzene), 9, NA3082, PG III (Polychlorinated biphenyls) | 1,155 GAL       | 7/30/07             | 000538589FLE                                  | DART Trucking Company, Inc.          | Incineration           | Spring Grove Resource Recovery, Inc.<br>4897 Spring Grove Avenue<br>Cincinnati, Ohio 45232 |
| Motor Oil and Hydraulic Oil Impacted Soil  | 5 loads, 75 CY  | 8/1/07              | 0160698 0018-0022                             | Klink Trucking                       | Landfill               | County Line Landfill<br>OS 31<br>Argos, Indiana 46501                                      |

**South Bend Lathe Removal**  
**Table 2 - Waste Materials and Disposal Summary (Continued)**  
**June 25, 2007 to August 3, 2007**

Notes:

|                                    |   |
|------------------------------------|---|
| CY – Cubic yards                   | N.O.S. – Not Otherwise Specified              |
| DOT – Department of Transportation | PCB – Polychlorinated biphenyl                |
| GAL – Gallons                      | PG – Packing Group                            |
| K – Kilograms                      | RCRA - Resource Conservation and Recovery Act |
| LBS – Pounds                       | RQ – Reportable Quantity                      |
| N/A – Not applicable               | UN – United Nations                           |

From July 23, 2007, through July 27, 2007, ERRS performed the following removal activities at the Site:

- Backfilled excavations where the three 20,000-gallon USTs and one 5,000-gallon UST had been with clean, sandy fill.
- After heavy rains fell during the weekend, ERRS dewatered the transformer rooms before the transformer removal subcontractor arrived at the Site.
- Selected and mobilized the PCB transformer removal subcontractor, Clean Harbors, to remove PCB transformers and the oil inside them.
- Demolished a steel structure on the south part of the Site to allow for continuing excavation of hydrocarbon contaminated soil near the 5,000-gallon UST. Andy Laurent of the City of South Bend agreed that this was necessary.
- Clean harbors removed PCB-containing oil and five PCB transformers from the two on-site transformer rooms.

OSC Theisen requested that WESTON START member Rauh be demobilized from the site on July 27, 2007, since the goals of the removal action had been met. ERRS remained on site to complete the remaining site tasks.

From July 30, 2007, through August 3, 2007, ERRS performed the following removal activities at the Site:

- Arranged for transportation and disposal of hydrocarbon-contaminated soil excavated from the area near the 5,000-gallon UST.
- Decontaminated equipment used for removal activities.
- Demobilized heavy equipment, temporary offices, security, and personnel.

## **2. Treatment/Disposal/Alternative Technology Approaches Pursued**

Ten waste streams were identified at the Site for disposal or recycling. The shipping dates, volumes shipped, transporter names, and disposal facilities are summarized in Table 2. The following methods were used to dispose of the waste streams:

- ACM debris was landfilled.
- Liquid PCBs and PCB-contaminated liquids were incinerated.
- Low-level PCB-contaminated debris was landfilled.
- Waste flammable liquids, waste paint-related material, and non-Department of Transportation/ non-Resource Conservation and Recovery Act hazardous liquids were treated.
- Flammable aerosols were treated.
- Mercury was recycled.
- Oil-contaminated soil was landfilled.

## **3. Public Information and Community Relations Activity**

On July 12, 2007, City of South Bend officials and U.S. EPA conducted a media event to convey future plans for Site use to the public. Media representatives from local newspapers, television

stations, and radio stations were at the Site. The event was covered on local, evening newscasts and in the local newspaper on July 13, 2007. Andy Laurent conducted the event while reporters interviewed OSC Ken Theisen and ERRS representative Mark Douglas.

## **E. RESOURCES COMMITTED**

Extramural Costs:

|                               |           |
|-------------------------------|-----------|
| Total ERRS Contractor Costs:  | \$344,449 |
| Total WESTON START Costs:     | \$36,290  |
| Extramural Subtotal           | \$380,739 |
| Estimated Total Project Costs | \$380,739 |
| Project Ceiling               | \$380,739 |

## **II. EFFECTIVENESS OF REMOVAL ACTIVITIES**

### **A. ACTIONS TAKEN BY PRPs**

U.S. EPA is seeking information to determine if ownership of any of the waste materials can be traced back to the previous owners.

General notice letters were issued to several previous owners and officers, including Norbert Toubes, who was an officer for both ARG Corporation and Turnmaster Corporation. Information request letters were issued to identify any additional liability information and insurance coverage information.

If additional information is uncovered during the investigation of the former owners of the Site which shows that the PRPs involved are both liable and viable, the appropriate administrative order will be issued. Since the removal action was conducted as Fund-led, cost recovery will be pursued as well as potential recovery of government funds via the former owner's insurance coverage.

### **B. ACTIONS TAKEN BY STATE AND LOCAL FORCES**

The City of South Bend requested the assistance of U.S EPA in performing the removal because it lacked the technical expertise and funds to conduct the cleanup.

### **C. ACTIONS TAKEN BY FEDERAL AGENCIES AND SPECIAL TEAMS**

On July 12, 2007, U.S. EPA health and safety auditor Bill Boyett performed a health and safety audit at the Site.

### **D. ACTIONS TAKEN BY CONTRACTORS, PRIVATE GROUPS, AND VOLUNTEERS**

The U.S. EPA ERRS contractor, EQM, removed ACM, oil and oil-contaminated soil, PCB-contaminated oil, wastes, and soil, PCB transformers, various caustic and flammable solids and wastes, and treated wastewater. ERRS coordinated the transportation and disposal of all waste streams and arranged for Site security, utilities, and the use of necessary equipment, such as an excavator, loader, Bobcat®, pumps, and a tanker truck to perform the removal action, and procured

all subcontractors.

The U.S. EPA START contractor, WESTON, provided technical support for the U.S. EPA. In addition, WESTON START performed general and health and safety oversight, documentation of Site activities, air monitoring, multi-media sampling, and START-related cost tracking.

Two contracted laboratories were used to perform all analyses required during removal activities. ACM Engineering & Environmental Services located at 26598 U.S. 20 West, South Bend, Indiana, performed the analyses of all asbestos in air samples. Microbac Laboratories, located at 250 West 84<sup>th</sup> Drive, Merrillville, Indiana, performed all additional analytical work for the Site.

### **III. DIFFICULTIES ENCOUNTERED**

#### **A. ITEMS THAT AFFECTED THE RESPONSE**

(Not Applicable)

#### **B. ISSUES OF INTERGOVERNMENTAL COORDINATION**

(Not Applicable)

#### **C. DIFFICULTIES INTERPRETING, COMPLYING WITH, OR IMPLEMENTING POLICIES AND REGULATIONS**

(Not Applicable)

### **IV. RECOMMENDATIONS**

#### **A. MEANS TO PREVENT RECURRENCE OF THE DISCHARGE OR RELEASE**

Since asbestos was only abated by U.S. EPA in areas where removal activities occurred, the City of South Bend should be aware that this issue should be addressed prior to demolition activities. The OSC has not identified any other additional tasks to be completed before the City of South Bend takes possession of the Site.

#### **B. MEANS TO IMPROVE RESPONSE ACTIONS**

(Not Applicable)

#### **C. PROPOSALS FOR CHANGES IN REGULATIONS AND RESPONSE PLANS**

(Not Applicable)

ATTACHMENT A  
PHOTOGRAPHIC DOCUMENTATION





**Site:** South Bend Lathe Removal

**Photo Number:** 1

**Direction:** West

**Subject:** Asbestos tiles and other debris in the west transformer room

**Date:** June 27, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 2

**Direction:** East

**Subject:** Asbestos insulation on a PCB transformer

**Date:** June 27, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 3

**Direction:** East

**Subject:** PCB transformer after asbestos abatement

**Date:** June 27, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 4

**Direction:** Southwest

**Subject:** Vats of liquid in the “plating room” (Note: The dates on some photos are incorrect due to the camera’s date having been reset.)

**Date:** June 30, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal  
**Photo Number:** 5  
**Direction:** Southwest  
**Subject:** Vat of caustic liquid, pH 11

**Date:** June 30, 2007  
**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal  
**Photo Number:** 6  
**Direction:** Northwest  
**Subject:** Small containers staged for hazard categorization

**Date:** July 7, 2007  
**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal  
**Photo Number:** 7  
**Direction:** North  
**Subject:** Exhaust vent for west transformer room

**Date:** July 7, 2007  
**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal  
**Photo Number:** 8  
**Direction:** West-Northwest  
**Subject:** Contents of the south 20,000-gallon USTs being transferred to a tanker for transport

**Date:** July 10, 2007  
**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 9

**Direction:** Northeast

**Subject:** ERRS member Mark Douglas performing hazard categorization on wastes

**Date:** July 11, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 10

**Direction:** South

**Subject:** OSC Ken Theisen being interviewed by local media

**Date:** July 12, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 11

**Direction:** South-Southeast

**Subject:** ERRS removing the north 20,000-gallon UST

**Date:** July 12, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 12

**Direction:** Northeast

**Subject:** Carbon treatment system for aqueous waste

**Date:** July 13, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 13

**Direction:** East

**Subject:** Hydrocarbon-contaminated soil in the excavation of the 5,000-gallon UST

**Date:** July 13, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 14

**Direction:** East

**Subject:** Clean fill where the 20,000-gallon USTs were buried

**Date:** July 23, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 15

**Direction:** West

**Subject:** ERRS subcontractor Clean Harbors removing a PCB transformer from the east transformer room

**Date:** July 25, 2007

**Photographer:** Jay Rauh



**Site:** South Bend Lathe Removal

**Photo Number:** 16

**Direction:** East

**Subject:** Three PCB transformers loaded for transportation and disposal

**Date:** July 26, 2007

**Photographer:** Jay Rauh





**Site:** South Bend Lathe Removal

**Photo Number:** 17

**Direction:** South-Southeast

**Subject:** ERRS loading waste into a trailer for transportation and disposal

**Date:** July 27, 2007

**Photographer:** Jay Rauh

ATTACHMENT B  
ANALYTICAL RESULTS

ATTACHMENT B1  
ASBESTOS AIR SAMPLING RESULTS

**Table B1 - Asbestos Air Sampling Results  
South Bend Lathe Removal  
South Bend, Indiana  
June 26 - July 5, 2007**

| <b>Sample Name</b> | <b>Sampling Date</b> | <b>Asbestos (Fibers/cc)</b> | <b>Action Level*</b> |
|--------------------|----------------------|-----------------------------|----------------------|
| SBL-PER01-062607   | 6/26/2007            | <0.01                       | 0.1                  |
| SBL-OPR01-062607   | 6/26/2007            | <0.01                       | 0.1                  |
| SBL-PER02-062707   | 6/27/2007            | <0.01                       | 0.1                  |
| SBL-OPR02-062707   | 6/27/2007            | <0.01                       | 0.1                  |
| SBL-PER03-062807   | 6/28/2007            | <0.01                       | 0.1                  |
| SBL-OPR03-062807   | 6/28/2007            | <0.01                       | 0.1                  |
| SBL-PER04-062907   | 6/29/2007            | <0.01                       | 0.1                  |
| SBL-OPR04-062907   | 6/29/2007            | <0.01                       | 0.1                  |
| SBL-PER04-070507   | 7/5/2007             | N/A <sup>1</sup>            | 0.1                  |
| SBL-OPR04-070507   | 7/5/2007             | N/A <sup>1</sup>            | 0.1                  |

NOTES:

Analysis done by polarized light microscopy, U.S. EPA Method 600/R-93/116

<sup>1</sup> - Filter overloaded - work was conducted in dusty conditions. Lab technician verbally reported that there were less than 0.01 fibers/cc in sample.

\* - Occupational Safety and Health Administration Permissible Exposure Limit for asbestos

< - less than

U.S. EPA - United States Environmental Protection Agency

Fibers/cc - fibers per cubic centimeter of sample

N/A - Not applicable

ATTACHMENT B2  
CHARACTERISTICS OF HAZARDOUS WASTE AND MISCELLANEOUS SAMPLING  
RESULTS

**Table B2 – Characteristics of Hazardous Waste and Miscellaneous Sampling Results  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                                 | Regulatory<br>Criteria <sup>1</sup> | Sample Name   | SBL-S001-071207 | SBL-S002-071607 | SBL-S003-071607 |
|---|-------------------------------------|---------------|-----------------|-----------------|-----------------|
|   |                                     | Sampling Date | 7/12/07         | 7/17/07         | 7/17/07         |
|   |                                     | Sample Matrix | Soil            | Soil            | Soil            |
|   |                                     | Location      | North UST       | South UST       | East UST        |
|   |                                     | Units         | Results         | Result          | Results         |
| <b>Characteristics of Hazardous Waste</b> |                                     |               |                 |                 |                 |
| Flashpoint                                | 140                                 | °F            | NA              | NA              | NA              |
| pH  | ≤2 or ≥12.5                         | SU            | NA              | NA              | NA              |
| Reactive Cyanide                          | Narrative                           | mg/kg         | NA              | NA              | NA              |
| Reactive Sulfide                          | Narrative                           | mg/kg         | NA              | NA              | NA              |
| <b>Other Analyses</b>                     |                                     |               |                 |                 |                 |
| Percent Moisture                          | Napp                                | WT%           | 7.5             | 4.7             | 6.6             |
| Total Petroleum Hydrocarbons              | Napp                                | mg/kg - dry   | 120             | 1600            | 29              |
| Heat Content                              | Napp                                | BTU/lb        | NA              | NA              | NA              |
| Chlorine                                  | Napp                                | mg/kg         | NA              | NA              | NA              |
| Chlorine                                  | Napp                                | mg/kg         | NA              | NA              | NA              |

NOTES:

Results in shaded boxes exceed the regulatory level.

<sup>1</sup> - 40 Code of Federal Regulations 261.24

> - Greater than

≥ - Greater than or equal to

≤ - Less than or equal to

°F - Degrees Fahrenheit

BTU/lb - British thermal units per pound

mg/kg - Milligrams per kilogram

mg/kg -dry - Milligrams per kilogram dry weight

NA - Not analyzed

Napp - Not applicable

ND - Not detected

SU - Standard units

WT% - weight percent

**Table B2 – Characteristics of Hazardous Waste and Miscellaneous Sampling Results  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                                 | Regulatory<br>Criteria <sup>1</sup> | Sample Name   | PCB-VAULT-TILE        | 7241 Liquid | Flammable Liquid |
|---|-------------------------------------|---------------|-----------------------|-------------|------------------|
|   |                                     | Sampling Date | 6/25/2007             | 6/29/2007   | 7/19/2007        |
|   |                                     | Sample Matrix | Solid                 | Liquid      | Flammable Liquid |
|   |                                     | Location      | West Transformer Room | Room 7241   | Various          |
|   |                                     | Units         | Result                | Result      | Result           |
| <b>Characteristics of Hazardous Waste</b> |                                     |               |                       |             |                  |
| Flashpoint                                | 140                                 | °F            | NA                    | NA          | 90               |
| pH  | ≤2 or ≥12.5                         | SU            | NA                    | 11          | NA               |
| Reactive Cyanide                          | Narrative                           | mg/kg         | NA                    | NA          | NA               |
| Reactive Sulfide                          | Narrative                           | mg/kg         | NA                    | NA          | NA               |
| <b>Other Analyses</b>                     |                                     |               |                       |             |                  |
| Percent Moisture                          | Napp                                | WT%           | NA                    | NA          | NA               |
| Total Petroleum Hydrocarbons              | Napp                                | mg/kg - dry   | NA                    | NA          | NA               |
| Heat Content                              | Napp                                | BTU/lb        | NA                    | NA          | 16,100           |
| Chlorine                                  | Napp                                | mg/kg         | NA                    | NA          | 3,200            |
| Asbestos Content                          | Napp                                | Chrysotile %  | 78                    | NA          | NA               |

NOTES:

Results in shaded boxes exceed the regulatory level.

<sup>1</sup> - 40 Code of Federal Regulations 261.24

> - Greater than

≥ - Greater than or equal to

≤ - Less than or equal to

°F - Degrees Fahrenheit

BTU/lb - British thermal units per pound

mg/kg - Milligrams per kilogram

mg/kg -dry - Milligrams per kilogram dry weight

NA - Not analyzed

Napp - Not applicable

ND - Not detected

SU - Standard units

WT% - weight percent

**Table B2 – Characteristics of Hazardous Waste and Miscellaneous Sampling Results  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                                 | Regulatory<br>Criteria <sup>1</sup> | Sample Name   | SBL-S004-072007 | SBL-W001-071907 | SBL-S005-072407 |
|---|-------------------------------------|---------------|-----------------|-----------------|-----------------|
|   |                                     | Sampling Date | 7/20/07         | 7/20/07         | 7/24/07         |
|   |                                     | Sample Matrix | Soil            | Aqueous         | Soil            |
|   |                                     | Location      | West UST        | Southwest Sewer | West UST        |
|   |                                     | Units         | Result          | Results         | Results         |
| <b>Characteristics of Hazardous Waste</b> |                                     |               |                 |                 |                 |
| Flashpoint                                | 140                                 | °F            | >170            | NA              | NA              |
| pH  | ≤2 or ≥12.5                         | SU            | 7.4             | 9.52            | NA              |
| Reactive Cyanide                          | Narrative                           | mg/kg         | ND              | NA              | NA              |
| Reactive Sulfide                          | Narrative                           | mg/kg         | ND              | NA              | NA              |
| <b>Other Analyses</b>                     |                                     |               |                 |                 |                 |
| Percent Moisture                          | Napp                                | WT%           | 11              | NA              | 5.6             |
| Total Petroleum Hydrocarbons              | Napp                                | mg/kg - dry   | 1,800           | NA              | 170             |
| Heat Content                              | Napp                                | BTU/lb        | NA              | NA              | NA              |
| Chlorine                                  | Napp                                | mg/kg         | NA              | NA              | NA              |
| Asbestos Content                          | Napp                                | Chrysotile %  | NA              | NA              | NA              |

NOTES:

Results in shaded boxes exceed the regulatory level.

<sup>1</sup> - 40 Code of Federal Regulations 261.24

> - Greater than

≥ - Greater than or equal to

≤ - Less than or equal to

°F - Degrees Fahrenheit

BTU/lb - British thermal units per pound

mg/kg - Milligrams per kilogram

mg/kg -dry - Milligrams per kilogram dry weight

NA - Not analyzed

Napp - Not applicable

ND - Not detected

SU - Standard units

WT% - weight percent



ATTACHMENT B3  
PCB SAMPLING RESULTS FOR SOIL SAMPLES

**Table B3 – PCB Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter    | Sample Name   | SBL-S001-071207 | SBL-S002-071607 | SBL-S003-071607 | Solids  | SBL-S004-072007 | SBL-S005-072407 |
|--------------|---------------|-----------------|-----------------|-----------------|---------|-----------------|-----------------|
|              | Sampling Date | 7/12/07         | 7/17/07         | 7/17/07         | 7/19/07 | 7/20/07         | 7/24/07         |
|              | Sample Matrix | Soil            | Soil            | Soil            | Solids  | Soil            | Soil            |
|              | Location      | North UST       | South UST       | East UST        | Various | West UST        | West UST        |
|              | Units         | Results         | Results         | Results         | Results | Results         | Results         |
| <b>PCBs</b>  |               |                 |                 |                 |         |                 |                 |
| Aroclor 1016 | mg/kg - dry   | ND              | ND              | ND              | ND      | ND              | ND              |
| Aroclor 1221 | mg/kg - dry   | ND              | ND              | ND              | ND      | ND              | ND              |
| Aroclor 1232 | mg/kg - dry   | ND              | ND              | ND              | ND      | ND              | ND              |
| Aroclor 1242 | mg/kg - dry   | ND              | ND              | ND              | ND      | ND              | ND              |
| Aroclor 1248 | mg/kg - dry   | ND              | ND              | ND              | ND      | ND              | ND              |
| Aroclor 1254 | mg/kg - dry   | ND              | ND              | ND              | ND      | ND              | ND              |
| Aroclor 1260 | mg/kg - dry   | 0.046           | ND              | ND              | ND      | 0.2             | 0.091           |
| Aroclor 1262 | mg/kg - dry   | ND              | ND              | ND              | ND      | ND              | ND              |
| Aroclor 1268 | mg/kg - dry   | ND              | ND              | ND              | ND      | ND              | ND              |
| Total PCBs   | mg/kg - dry   | 0.046           | ND              | ND              | ND      | 0.2             | 0.091           |

NOTES:

mg/kg - dry - Milligrams per kilogram dry weight

ND - Not detected

PCB - Polychlorinated biphenyl

ATTACHMENT B4  
TCLP VOC SAMPLING RESULTS

**Table B4 – TCLP VOC Sampling Results  
South Bend Lathe Removal  
South Bend, Indiana  
July 19 - 20, 2007**

| <b>Parameter</b>     | <b>Regulatory<br/>Criteria<sup>1</sup></b> | <b>Sample Name</b>   | Solids         | SBL-S004-072007 |
|----------------------|--|----------------------|----------------|-----------------|
|                      |  | <b>Sampling Date</b> | 7/19/2007      | 7/20/07         |
|                      |  | <b>Sample Matrix</b> | Solids         | Soil            |
|                      |  | <b>Location</b>      | Various        | West UST        |
|                      |  | <b>Units</b>         | <b>Results</b> | <b>Results</b>  |
| <b>TCLP VOCs</b>     |  |                      |                |                 |
| 1,1-Dichloroethene   | 0.7  | mg/L                 | ND             | ND              |
| 1,2-Dichloroethane   | 0.5  | mg/L                 | ND             | ND              |
| 1,4-Dichlorobenzene  | 7.5  | mg/L                 | ND             | ND              |
| 2-Butanone           | 200.0                                      | mg/L                 | ND             | ND              |
| Benzene              | 0.5  | mg/L                 | ND             | ND              |
| Carbon tetrachloride | 0.5  | mg/L                 | ND             | ND              |
| Chlorobenzene        | 100.0                                      | mg/L                 | ND             | ND              |
| Chloroform           | 6.0  | mg/L                 | ND             | ND              |
| Tetrachloroethene    | 0.7  | mg/L                 | ND             | ND              |
| Trichloroethene      | 0.5  | mg/L                 | ND             | ND              |
| Vinyl chloride       | 0.2  | mg/L                 | ND             | ND              |

NOTES:

<sup>1</sup> - 40 Code of Federal Regulations 261.24

mg/L - Milligrams per liter

ND - Not detected

TCLP - Toxicity characteristic leaching procedure

VOC - Volatile organic compound

ATTACHMENT B5  
TCLP SVOC SAMPLING RESULTS

**Table B5 – TCLP SVOC Sampling Results  
South Bend Lathe Removal  
South Bend, Indiana  
July 19 - 20, 2007**

| Parameter             | Regulatory<br>Criteria <sup>1</sup> | Sample Name   | Solids    | SBL-S004-072007 |
|-----------------------|-------------------------------------|---------------|-----------|-----------------|
|                       |                                     | Sampling Date | 7/19/2007 | 7/20/07         |
|                       |                                     | Sample Matrix | Solids    | Soil            |
|                       |                                     | Location      | Various   | West UST        |
|                       |                                     | Units         | Results   | Results         |
| <b>TCLP SVOCs</b>     |                                     |               |           |                 |
| 1,4-Dichlorobenzene   | 7.5                                 | mg/L          | ND        | ND              |
| 2,4,5-Trichlorophenol | 400.0                               | mg/L          | ND        | ND              |
| 2,4,6-Trichlorophenol | 2.0                                 | mg/L          | ND        | ND              |
| 2,4-Dinitrotoluene    | 0.13                                | mg/L          | ND        | ND              |
| 2-Methylphenol        | 200.0                               | mg/L          | ND        | ND              |
| 3/4-Methylphenol      | 200.0                               | mg/L          | ND        | ND              |
| Hexachlorobenzene     | 0.13                                | mg/L          | ND        | ND              |
| Hexachlorobutadiene   | 0.5                                 | mg/L          | ND        | ND              |
| Hexachloroethane      | 3.0                                 | mg/L          | ND        | ND              |
| Nitrobenzene          | 2.0                                 | mg/L          | ND        | ND              |
| Pentachlorophenol     | 100.0                               | mg/L          | ND        | ND              |
| Pyridine              | 5.0                                 | mg/L          | ND        | ND              |
| Total Cresol          | 200.0                               | mg/L          | ND        | ND              |

NOTES:

<sup>1</sup> - 40 Code of Federal Regulations 261.24

mg/L - Milligrams per liter

ND - Not detected

SVOC - Semivolatile organic compound

TCLP - Toxicity characteristic leaching procedure

ATTACHMENT B6  
TCLP METALS SAMPLING RESULTS

**Table B6 – TCLP Metals Sampling Results  
 South Bend Lathe Removal  
 South Bend, Indiana  
 July 19 - 20, 2007**

| <b>Parameter</b>   | <b>Regulatory<br/>Criteria<sup>1</sup></b> | <b>Sample Name</b>   | Solids         | SBL-S004-072007 |
|--------------------|--|----------------------|----------------|-----------------|
|                    |  | <b>Sampling Date</b> | 7/19/2007      | 7/20/07         |
|                    |  | <b>Sample Matrix</b> | Solids         | Soil            |
|                    |  | <b>Location</b>      | Various        | West UST        |
|                    |  | <b>Units</b>         | <b>Results</b> | <b>Results</b>  |
| <b>TCLP Metals</b> |  |                      |                |                 |
| Arsenic            | 5.0  | mg/L                 | 0.013          | ND              |
| Barium             | 100.0                                      | mg/L                 | 160            | 1.3             |
| Cadmium            | 1.0  | mg/L                 | 0.01           | 0.008           |
| Chromium           | 5.0  | mg/L                 | 0.0086         | ND              |
| Lead               | 5.0  | mg/L                 | 0.0087         | 0.29            |
| Selenium           | 1.0  | mg/L                 | 0.031          | ND              |
| Silver             | 5.0  | mg/L                 | ND             | ND              |
| Mercury            | 0.2  | mg/L                 | ND             | ND              |

NOTES:

<sup>1</sup> - 40 Code of Federal Regulations 261.24

mg/L - Milligrams per liter

ND - Not detected

TCLP - Toxicity characteristic leaching procedure



ATTACHMENT B7  
SVOC SAMPLING RESULTS FOR SOIL SAMPLES

**Table B7 – SVOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                   | Sample Name   | SBL-S001-071207 | SBL-S002-071607 |
|-----------------------------|---------------|-----------------|-----------------|
|                             | Sampling Date | 7/12/07         | 7/17/07         |
|                             | Sample Matrix | Soil            | Soil            |
|                             | Location      | North UST       | South UST       |
|                             | Units         | Results         | Result          |
| <b>Total SVOCs</b>          |               |                 |                 |
| 1,2,4-Trichlorobenzene      | mg/kg - dry   | ND              | ND              |
| 1,2-Dichlorobenzene         | mg/kg - dry   | ND              | ND              |
| 1,2-Diphenyl-hydrazine      | mg/kg - dry   | ND              | ND              |
| 1,3-Dichlorobenzene         | mg/kg - dry   | ND              | ND              |
| 1,4-Dichlorobenzene         | mg/kg - dry   | ND              | ND              |
| 2,4,5-Trichlorophenol       | mg/kg - dry   | ND              | ND              |
| 2,4,6-Trichlorophenol       | mg/kg - dry   | ND              | ND              |
| 2,4-Dichlorophenol          | mg/kg - dry   | ND              | ND              |
| 2,4-Dimethylphenol          | mg/kg - dry   | ND              | ND              |
| 2,4-Dinitrophenol           | mg/kg - dry   | ND              | ND              |
| 2,4-Dinitrotoluene          | mg/kg - dry   | ND              | ND              |
| 2,6-Dichlorophenol          | mg/kg - dry   | ND              | ND              |
| 2,6-Dinitrotoluene          | mg/kg - dry   | ND              | ND              |
| 2-Chloronaphthalene         | mg/kg - dry   | ND              | ND              |
| 2-Chlorophenol              | mg/kg - dry   | ND              | ND              |
| 2-Methylnaphthalene         | mg/kg - dry   | ND              | ND              |
| 2-Methylphenol              | mg/kg - dry   | ND              | ND              |
| 2-Nitroaniline              | mg/kg - dry   | ND              | ND              |
| 2-Nitrophenol               | mg/kg - dry   | ND              | ND              |
| 3,3'-Dichlorobenzidine      | mg/kg - dry   | ND              | ND              |
| 3-Nitroaniline              | mg/kg - dry   | ND              | ND              |
| 3/4-Methylphenol            | mg/kg - dry   | ND              | ND              |
| 4,6-Dinitro-2-methylphenol  | mg/kg - dry   | ND              | ND              |
| 4-Bromophenyl phenyl ether  | mg/kg - dry   | ND              | ND              |
| 4-Chloro-3-methylphenol     | mg/kg - dry   | ND              | ND              |
| 4-Chloroaniline             | mg/kg - dry   | ND              | ND              |
| 4-Chlorophenyl phenyl ether | mg/kg - dry   | ND              | ND              |
| 4-Nitroaniline              | mg/kg - dry   | ND              | ND              |
| 4-Nitrophenol               | mg/kg - dry   | ND              | ND              |
| Acenaphthene                | mg/kg - dry   | ND              | ND              |
| Acenaphthylene              | mg/kg - dry   | ND              | ND              |
| Acetophenone                | mg/kg - dry   | ND              | ND              |
| Aniline                     | mg/kg - dry   | ND              | ND              |
| Anthracene                  | mg/kg - dry   | ND              | ND              |
| Benzidine                   | mg/kg - dry   | ND              | ND              |

**Table B7 – SVOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                   | Sample Name   | SBL-S001-071207 | SBL-S002-071607 |
|-----------------------------|---------------|-----------------|-----------------|
|                             | Sampling Date | 7/12/07         | 7/17/07         |
|                             | Sample Matrix | Soil            | Soil            |
|                             | Location      | North UST       | South UST       |
|                             | Units         | Results         | Result          |
| <b>Total SVOCs</b>          |               |                 |                 |
| Benzo[a]anthracene          | mg/kg - dry   | 0.52            | ND              |
| Benzo[a]pyrene              | mg/kg - dry   | 0.37            | ND              |
| Benzo[b]fluoranthene        | mg/kg - dry   | ND              | ND              |
| Benzo[g,h,i]perylene        | mg/kg - dry   | 0.51            | ND              |
| Benzo[k]fluoranthene        | mg/kg - dry   | ND              | ND              |
| Benzoic acid                | mg/kg - dry   | ND              | ND              |
| Benzyl alcohol              | mg/kg - dry   | ND              | ND              |
| Bis(2-chloroethoxy)methane  | mg/kg - dry   | ND              | ND              |
| Bis(2-chloroethyl)ether     | mg/kg - dry   | ND              | ND              |
| Bis(2-chloroisopropyl)ether | mg/kg - dry   | ND              | ND              |
| Bis(2-ethylhexyl)phthalate  | mg/kg - dry   | ND              | ND              |
| Butyl benzyl phthalate      | mg/kg - dry   | ND              | ND              |
| Carbazole                   | mg/kg - dry   | ND              | ND              |
| Chrysene                    | mg/kg - dry   | 0.56            | ND              |
| Di-n-butyl phthalate        | mg/kg - dry   | ND              | ND              |
| Di-n-octyl phthalate        | mg/kg - dry   | ND              | ND              |
| Dibenz[a,h]anthracene       | mg/kg - dry   | ND              | ND              |
| Dibenzofuran                | mg/kg - dry   | ND              | ND              |
| Diethyl phthalate           | mg/kg - dry   | ND              | ND              |
| Dimethyl phthalate          | mg/kg - dry   | ND              | ND              |
| Fluoranthene                | mg/kg - dry   | 1.3             | ND              |
| Fluorene                    | mg/kg - dry   | ND              | ND              |
| Hexachlorobenzene           | mg/kg - dry   | ND              | ND              |
| Hexachlorobutadiene         | mg/kg - dry   | ND              | ND              |
| Hexachlorocyclopentadiene   | mg/kg - dry   | ND              | ND              |
| Hexachloroethane            | mg/kg - dry   | ND              | ND              |
| Indeno[1,2,3cd]pyrene       | mg/kg - dry   | ND              | ND              |
| Isophorone                  | mg/kg - dry   | ND              | ND              |
| N-Nitrosodi-n-propylamine   | mg/kg - dry   | ND              | ND              |
| N-Nitrosodimethylamine      | mg/kg - dry   | ND              | ND              |
| N-Nitrosodiphenylamine      | mg/kg - dry   | ND              | ND              |
| Naphthalene                 | mg/kg - dry   | ND              | ND              |
| Nitrobenzene                | mg/kg - dry   | ND              | ND              |
| Pentachlorophenol           | mg/kg - dry   | ND              | ND              |
| Phenanthrene                | mg/kg - dry   | 0.62            | ND              |

**Table B7 – SVOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| <b>Parameter</b>   | <b>Sample Name</b>   | SBL-S001-071207 | SBL-S002-071607 |
|--------------------|----------------------|-----------------|-----------------|
|                    | <b>Sampling Date</b> | 7/12/07         | 7/17/07         |
|                    | <b>Sample Matrix</b> | Soil            | Soil            |
|                    | <b>Location</b>      | North UST       | South UST       |
|                    | <b>Units</b>         | <b>Results</b>  | <b>Result</b>   |
| <b>Total SVOCs</b> |                      |                 |                 |
| Phenol             | mg/kg - dry          | ND              | ND              |
| Pyrene             | mg/kg - dry          | 0.92            | ND              |
| Pyridine           | mg/kg - dry          | ND              | ND              |
| Total Cresol       | mg/kg - dry          | ND              | ND              |

NOTES:

mg/kg - dry - Milligrams per kilogram dry weight

ND - Not detected

SVOC - Semivolatile organic compound

**Table B7 – SVOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                   | Sample Name   | SBL-S003-071607 | SBL-S004-072007 |
|-----------------------------|---------------|-----------------|-----------------|
|                             | Sampling Date | 7/17/07         | 7/20/07         |
|                             | Sample Matrix | Soil            | Soil            |
|                             | Location      | East UST        | West UST        |
|                             | Units         | Results         | Result          |
| <b>Total SVOCs</b>          |               |                 |                 |
| 1,2,4-Trichlorobenzene      | mg/kg - dry   | ND              | ND              |
| 1,2-Dichlorobenzene         | mg/kg - dry   | ND              | ND              |
| 1,2-Diphenyl-hydrazine      | mg/kg - dry   | ND              | ND              |
| 1,3-Dichlorobenzene         | mg/kg - dry   | ND              | ND              |
| 1,4-Dichlorobenzene         | mg/kg - dry   | ND              | ND              |
| 2,4,5-Trichlorophenol       | mg/kg - dry   | ND              | ND              |
| 2,4,6-Trichlorophenol       | mg/kg - dry   | ND              | ND              |
| 2,4-Dichlorophenol          | mg/kg - dry   | ND              | ND              |
| 2,4-Dimethylphenol          | mg/kg - dry   | ND              | ND              |
| 2,4-Dinitrophenol           | mg/kg - dry   | ND              | ND              |
| 2,4-Dinitrotoluene          | mg/kg - dry   | ND              | ND              |
| 2,6-Dichlorophenol          | mg/kg - dry   | ND              | ND              |
| 2,6-Dinitrotoluene          | mg/kg - dry   | ND              | ND              |
| 2-Chloronaphthalene         | mg/kg - dry   | ND              | ND              |
| 2-Chlorophenol              | mg/kg - dry   | ND              | ND              |
| 2-Methylnaphthalene         | mg/kg - dry   | ND              | ND              |
| 2-Methylphenol              | mg/kg - dry   | ND              | ND              |
| 2-Nitroaniline              | mg/kg - dry   | ND              | ND              |
| 2-Nitrophenol               | mg/kg - dry   | ND              | ND              |
| 3,3'-Dichlorobenzidine      | mg/kg - dry   | ND              | ND              |
| 3-Nitroaniline              | mg/kg - dry   | ND              | ND              |
| 3/4-Methylphenol            | mg/kg - dry   | ND              | ND              |
| 4,6-Dinitro-2-methylphenol  | mg/kg - dry   | ND              | ND              |
| 4-Bromophenyl phenyl ether  | mg/kg - dry   | ND              | ND              |
| 4-Chloro-3-methylphenol     | mg/kg - dry   | ND              | ND              |
| 4-Chloroaniline             | mg/kg - dry   | ND              | ND              |
| 4-Chlorophenyl phenyl ether | mg/kg - dry   | ND              | ND              |
| 4-Nitroaniline              | mg/kg - dry   | ND              | ND              |
| 4-Nitrophenol               | mg/kg - dry   | ND              | ND              |
| Acenaphthene                | mg/kg - dry   | ND              | ND              |
| Acenaphthylene              | mg/kg - dry   | ND              | ND              |
| Acetophenone                | mg/kg - dry   | ND              | ND              |
| Aniline                     | mg/kg - dry   | ND              | ND              |
| Anthracene                  | mg/kg - dry   | ND              | ND              |
| Benzidine                   | mg/kg - dry   | ND              | ND              |

**Table B7 – SVOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                   | Sample Name   | SBL-S003-071607 | SBL-S004-072007 |
|-----------------------------|---------------|-----------------|-----------------|
|                             | Sampling Date | 7/17/07         | 7/20/07         |
|                             | Sample Matrix | Soil            | Soil            |
|                             | Location      | East UST        | West UST        |
|                             | Units         | Results         | Result          |
| <b>Total SVOCs</b>          |               |                 |                 |
| Benzo[a]anthracene          | mg/kg - dry   | ND              | ND              |
| Benzo[a]pyrene              | mg/kg - dry   | ND              | ND              |
| Benzo[b]fluoranthene        | mg/kg - dry   | ND              | ND              |
| Benzo[g,h,i]perylene        | mg/kg - dry   | ND              | ND              |
| Benzo[k]fluoranthene        | mg/kg - dry   | ND              | ND              |
| Benzoic acid                | mg/kg - dry   | ND              | ND              |
| Benzyl alcohol              | mg/kg - dry   | ND              | ND              |
| Bis(2-chloroethoxy)methane  | mg/kg - dry   | ND              | ND              |
| Bis(2-chloroethyl)ether     | mg/kg - dry   | ND              | ND              |
| Bis(2-chloroisopropyl)ether | mg/kg - dry   | ND              | ND              |
| Bis(2-ethylhexyl)phthalate  | mg/kg - dry   | ND              | ND              |
| Butyl benzyl phthalate      | mg/kg - dry   | ND              | ND              |
| Carbazole                   | mg/kg - dry   | ND              | ND              |
| Chrysene                    | mg/kg - dry   | ND              | ND              |
| Di-n-butyl phthalate        | mg/kg - dry   | ND              | ND              |
| Di-n-octyl phthalate        | mg/kg - dry   | ND              | ND              |
| Dibenz[a,h]anthracene       | mg/kg - dry   | ND              | ND              |
| Dibenzofuran                | mg/kg - dry   | ND              | ND              |
| Diethyl phthalate           | mg/kg - dry   | ND              | ND              |
| Dimethyl phthalate          | mg/kg - dry   | ND              | ND              |
| Fluoranthene                | mg/kg - dry   | 0.42            | 0.74            |
| Fluorene                    | mg/kg - dry   | ND              | ND              |
| Hexachlorobenzene           | mg/kg - dry   | ND              | ND              |
| Hexachlorobutadiene         | mg/kg - dry   | ND              | ND              |
| Hexachlorocyclopentadiene   | mg/kg - dry   | ND              | ND              |
| Hexachloroethane            | mg/kg - dry   | ND              | ND              |
| Indeno[1,2,3cd]pyrene       | mg/kg - dry   | ND              | ND              |
| Isophorone                  | mg/kg - dry   | ND              | ND              |
| N-Nitrosodi-n-propylamine   | mg/kg - dry   | ND              | ND              |
| N-Nitrosodimethylamine      | mg/kg - dry   | ND              | ND              |
| N-Nitrosodiphenylamine      | mg/kg - dry   | ND              | ND              |
| Naphthalene                 | mg/kg - dry   | ND              | 0.6             |
| Nitrobenzene                | mg/kg - dry   | ND              | ND              |
| Pentachlorophenol           | mg/kg - dry   | ND              | ND              |
| Phenanthrene                | mg/kg - dry   | ND              | 0.59            |

**Table B7 – SVOC Sampling Results for Soil Samples  
 South Bend Lathe Removal  
 South Bend, Indiana  
 July 12 - 20, 2007**

| <b>Parameter</b>   | <b>Sample Name</b>   | SBL-S003-071607 | SBL-S004-072007 |
|--------------------|----------------------|-----------------|-----------------|
|                    | <b>Sampling Date</b> | 7/17/07         | 7/20/07         |
|                    | <b>Sample Matrix</b> | Soil            | Soil            |
|                    | <b>Location</b>      | East UST        | West UST        |
|                    | <b>Units</b>         | <b>Results</b>  | <b>Result</b>   |
| <b>Total SVOCs</b> |                      |                 |                 |
| Phenol             | mg/kg - dry          | ND              | ND              |
| Pyrene             | mg/kg - dry          | 0.39            | 0.86            |
| Pyridine           | mg/kg - dry          | ND              | ND              |
| Total Cresol       | mg/kg - dry          | ND              | ND              |

NOTES:

mg/kg - dry - Milligrams per kilogram dry weight

ND - Not detected

SVOC - Semivolatile organic compound

**Table B7 – SVOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                   | Sample Name   | SBL-S005-072407 |
|-----------------------------|---------------|-----------------|
|                             | Sampling Date | 7/24/07         |
|                             | Sample Matrix | Soil            |
|                             | Location      | West UST        |
|                             | Units         | Result          |
| <b>Total SVOCs</b>          |               |                 |
| 1,2,4-Trichlorobenzene      | mg/kg - dry   | ND              |
| 1,2-Dichlorobenzene         | mg/kg - dry   | ND              |
| 1,2-Diphenyl-hydrazine      | mg/kg - dry   | ND              |
| 1,3-Dichlorobenzene         | mg/kg - dry   | ND              |
| 1,4-Dichlorobenzene         | mg/kg - dry   | ND              |
| 2,4,5-Trichlorophenol       | mg/kg - dry   | ND              |
| 2,4,6-Trichlorophenol       | mg/kg - dry   | ND              |
| 2,4-Dichlorophenol          | mg/kg - dry   | ND              |
| 2,4-Dimethylphenol          | mg/kg - dry   | ND              |
| 2,4-Dinitrophenol           | mg/kg - dry   | ND              |
| 2,4-Dinitrotoluene          | mg/kg - dry   | ND              |
| 2,6-Dichlorophenol          | mg/kg - dry   | ND              |
| 2,6-Dinitrotoluene          | mg/kg - dry   | ND              |
| 2-Chloronaphthalene         | mg/kg - dry   | ND              |
| 2-Chlorophenol              | mg/kg - dry   | ND              |
| 2-Methylnaphthalene         | mg/kg - dry   | ND              |
| 2-Methylphenol              | mg/kg - dry   | ND              |
| 2-Nitroaniline              | mg/kg - dry   | ND              |
| 2-Nitrophenol               | mg/kg - dry   | ND              |
| 3,3'-Dichlorobenzidine      | mg/kg - dry   | ND              |
| 3-Nitroaniline              | mg/kg - dry   | ND              |
| 3/4-Methylphenol            | mg/kg - dry   | ND              |
| 4,6-Dinitro-2-methylphenol  | mg/kg - dry   | ND              |
| 4-Bromophenyl phenyl ether  | mg/kg - dry   | ND              |
| 4-Chloro-3-methylphenol     | mg/kg - dry   | ND              |
| 4-Chloroaniline             | mg/kg - dry   | ND              |
| 4-Chlorophenyl phenyl ether | mg/kg - dry   | ND              |
| 4-Nitroaniline              | mg/kg - dry   | ND              |
| 4-Nitrophenol               | mg/kg - dry   | ND              |
| Acenaphthene                | mg/kg - dry   | ND              |
| Acenaphthylene              | mg/kg - dry   | ND              |
| Acetophenone                | mg/kg - dry   | ND              |
| Aniline                     | mg/kg - dry   | ND              |
| Anthracene                  | mg/kg - dry   | ND              |
| Benzidine                   | mg/kg - dry   | ND              |



**Table B7 – SVOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                   | Sample Name   | SBL-S005-072407 |
|-----------------------------|---------------|-----------------|
|                             | Sampling Date | 7/24/07         |
|                             | Sample Matrix | Soil            |
|                             | Location      | West UST        |
|                             | Units         | Result          |
| <b>Total SVOCs</b>          |               |                 |
| Benzo[a]anthracene          | mg/kg - dry   | ND              |
| Benzo[a]pyrene              | mg/kg - dry   | ND              |
| Benzo[b]fluoranthene        | mg/kg - dry   | ND              |
| Benzo[g,h,i]perylene        | mg/kg - dry   | ND              |
| Benzo[k]fluoranthene        | mg/kg - dry   | ND              |
| Benzoic acid                | mg/kg - dry   | ND              |
| Benzyl alcohol              | mg/kg - dry   | ND              |
| Bis(2-chloroethoxy)methane  | mg/kg - dry   | ND              |
| Bis(2-chloroethyl)ether     | mg/kg - dry   | ND              |
| Bis(2-chloroisopropyl)ether | mg/kg - dry   | ND              |
| Bis(2-ethylhexyl)phthalate  | mg/kg - dry   | ND              |
| Butyl benzyl phthalate      | mg/kg - dry   | ND              |
| Carbazole                   | mg/kg - dry   | ND              |
| Chrysene                    | mg/kg - dry   | ND              |
| Di-n-butyl phthalate        | mg/kg - dry   | ND              |
| Di-n-octyl phthalate        | mg/kg - dry   | ND              |
| Dibenz[a,h]anthracene       | mg/kg - dry   | ND              |
| Dibenzofuran                | mg/kg - dry   | ND              |
| Diethyl phthalate           | mg/kg - dry   | ND              |
| Dimethyl phthalate          | mg/kg - dry   | ND              |
| Fluoranthene                | mg/kg - dry   | ND              |
| Fluorene                    | mg/kg - dry   | ND              |
| Hexachlorobenzene           | mg/kg - dry   | ND              |
| Hexachlorobutadiene         | mg/kg - dry   | ND              |
| Hexachlorocyclopentadiene   | mg/kg - dry   | ND              |
| Hexachloroethane            | mg/kg - dry   | ND              |
| Indeno[1,2,3cd]pyrene       | mg/kg - dry   | ND              |
| Isophorone                  | mg/kg - dry   | ND              |
| N-Nitrosodi-n-propylamine   | mg/kg - dry   | ND              |
| N-Nitrosodimethylamine      | mg/kg - dry   | ND              |
| N-Nitrosodiphenylamine      | mg/kg - dry   | ND              |
| Naphthalene                 | mg/kg - dry   | ND              |
| Nitrobenzene                | mg/kg - dry   | ND              |
| Pentachlorophenol           | mg/kg - dry   | ND              |
| Phenanthrene                | mg/kg - dry   | ND              |

**Table B7 – SVOC Sampling Results for Soil Samples  
 South Bend Lathe Removal  
 South Bend, Indiana  
 July 12 - 20, 2007**

|                    |                      |                 |
|--------------------|----------------------|-----------------|
| <b>Parameter</b>   | <b>Sample Name</b>   | SBL-S005-072407 |
|                    | <b>Sampling Date</b> | 7/24/07         |
|                    | <b>Sample Matrix</b> | Soil            |
|                    | <b>Location</b>      | West UST        |
|                    | <b>Units</b>         | <b>Result</b>   |
| <b>Total SVOCs</b> |                      |                 |
| Phenol             | mg/kg - dry          | ND              |
| Pyrene             | mg/kg - dry          | ND              |
| Pyridine           | mg/kg - dry          | ND              |
| Total Cresol       | mg/kg - dry          | ND              |

NOTES:

mg/kg - dry - Milligrams per kilogram dry weight

ND - Not detected

SVOC - Semivolatile organic compound

ATTACHMENT B8  
VOC SAMPLING RESULTS FOR SOIL SAMPLES

**Table B8 – VOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                 | Sample Name   | SBL-S001-071207 | SBL-S002-071607 | SBL-S003-071607 |
|---------------------------|---------------|-----------------|-----------------|-----------------|
|                           | Sampling Date | 7/12/07         | 7/17/07         | 7/17/07         |
|                           | Sample Matrix | Soil            | Soil            | Soil            |
|                           | Location      | North UST       | South UST       | East UST        |
|                           | Units         | Results         | Result          | Results         |
| <b>Total VOCs</b>         |               |                 |                 |                 |
| 1,1,1,2-Tetrachloroethane | mg/kg - dry   | ND              | ND              | ND              |
| 1,1,1-Trichloroethane     | mg/kg - dry   | ND              | ND              | ND              |
| 1,1,2,2-Tetrachloroethane | mg/kg - dry   | ND              | ND              | ND              |
| 1,1,2-Trichloroethane     | mg/kg - dry   | ND              | ND              | ND              |
| 1,1-Dichloroethane        | mg/kg - dry   | ND              | ND              | ND              |
| 1,1-Dichloroethene        | mg/kg - dry   | ND              | ND              | ND              |
| 1,2-Dichloroethane        | mg/kg - dry   | ND              | ND              | ND              |
| 1,2-Dichloropropane       | mg/kg - dry   | ND              | ND              | ND              |
| 2-Butanone                | mg/kg - dry   | ND              | ND              | ND              |
| 2-Hexanone                | mg/kg - dry   | ND              | ND              | ND              |
| 4-Methyl-2-Pentanone      | mg/kg - dry   | ND              | ND              | ND              |
| Acetone                   | mg/kg - dry   | ND              | ND              | ND              |
| Acrolein                  | mg/kg - dry   | ND              | ND              | ND              |
| Acrylonitrile             | mg/kg - dry   | ND              | ND              | ND              |
| Benzene                   | mg/kg - dry   | ND              | ND              | ND              |
| Bromodichloromethane      | mg/kg - dry   | ND              | ND              | ND              |
| Bromoform                 | mg/kg - dry   | ND              | ND              | ND              |
| Bromomethane              | mg/kg - dry   | ND              | ND              | ND              |
| Carbon Disulfide          | mg/kg - dry   | ND              | ND              | ND              |
| Carbon tetrachloride      | mg/kg - dry   | ND              | ND              | ND              |
| Chlorobenzene             | mg/kg - dry   | ND              | ND              | ND              |
| Chloroethane              | mg/kg - dry   | ND              | ND              | ND              |
| Chloroform                | mg/kg - dry   | ND              | ND              | ND              |
| Chloromethane             | mg/kg - dry   | ND              | ND              | ND              |
| cis-1,2-Dichloroethene    | mg/kg - dry   | ND              | 0.0075          | ND              |
| cis-1,3-Dichloropropene   | mg/kg - dry   | ND              | ND              | ND              |
| Dibromochloromethane      | mg/kg - dry   | ND              | ND              | ND              |
| Ethylbenzene              | mg/kg - dry   | ND              | ND              | ND              |
| m,p-Xylene                | mg/kg - dry   | ND              | ND              | ND              |
| Methyl-t-Butyl Ether      | mg/kg - dry   | ND              | ND              | ND              |
| Methylene chloride        | mg/kg - dry   | ND              | ND              | ND              |
| o-Xylene                  | mg/kg - dry   | ND              | ND              | ND              |
| Styrene                   | mg/kg - dry   | ND              | ND              | ND              |
| Tetrachloroethene         | mg/kg - dry   | ND              | 0.056           | ND              |
| Toluene                   | mg/kg - dry   | ND              | ND              | ND              |

**Table B8 – VOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| <b>Parameter</b>          | <b>Sample Name</b>   | SBL-S001-071207 | SBL-S002-071607 | SBL-S003-071607 |
|---------------------------|----------------------|-----------------|-----------------|-----------------|
|                           | <b>Sampling Date</b> | 7/12/07         | 7/17/07         | 7/17/07         |
|                           | <b>Sample Matrix</b> | Soil            | Soil            | Soil            |
|                           | <b>Location</b>      | North UST       | South UST       | East UST        |
|                           | <b>Units</b>         | <b>Results</b>  | <b>Result</b>   | <b>Results</b>  |
| <b>Total VOCs</b>         |                      |                 |                 |                 |
| Total Xylenes             | mg/kg - dry          | ND              | ND              | ND              |
| trans-1,2-Dichloroethene  | mg/kg - dry          | ND              | ND              | ND              |
| trans-1,3-Dichloropropene | mg/kg - dry          | ND              | ND              | ND              |
| Trichloroethene           | mg/kg - dry          | ND              | 0.02            | ND              |
| Trichlorofluoromethane    | mg/kg - dry          | ND              | ND              | ND              |
| Vinyl Acetate             | mg/kg - dry          | ND              | ND              | ND              |
| Vinyl chloride            | mg/kg - dry          | ND              | ND              | ND              |

NOTES:

mg/kg - dry - Milligrams per kilogram dry weight

ND - Not detected

VOC - Volatile organic compound

**Table B8 – VOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                 | Sample Name   | SBL-S004-072007 | SBL-S005-072407 |
|---------------------------|---------------|-----------------|-----------------|
|                           | Sampling Date | 7/20/07         | 7/24/07         |
|                           | Sample Matrix | Soil            | Soil            |
|                           | Location      | West UST        | West UST        |
|                           | Units         | Result          | Result          |
| <b>Total VOCs</b>         |               |                 |                 |
| 1,1,1,2-Tetrachloroethane | mg/kg - dry   | ND              | ND              |
| 1,1,1-Trichloroethane     | mg/kg - dry   | ND              | ND              |
| 1,1,2,2-Tetrachloroethane | mg/kg - dry   | ND              | ND              |
| 1,1,2-Trichloroethane     | mg/kg - dry   | ND              | ND              |
| 1,1-Dichloroethane        | mg/kg - dry   | ND              | ND              |
| 1,1-Dichloroethene        | mg/kg - dry   | ND              | ND              |
| 1,2-Dichloroethane        | mg/kg - dry   | ND              | ND              |
| 1,2-Dichloropropane       | mg/kg - dry   | ND              | ND              |
| 2-Butanone                | mg/kg - dry   | ND              | ND              |
| 2-Hexanone                | mg/kg - dry   | ND              | ND              |
| 4-Methyl-2-Pentanone      | mg/kg - dry   | ND              | ND              |
| Acetone                   | mg/kg - dry   | ND              | ND              |
| Acrolein                  | mg/kg - dry   | ND              | ND              |
| Acrylonitrile             | mg/kg - dry   | ND              | ND              |
| Benzene                   | mg/kg - dry   | ND              | ND              |
| Bromodichloromethane      | mg/kg - dry   | ND              | ND              |
| Bromoform                 | mg/kg - dry   | ND              | ND              |
| Bromomethane              | mg/kg - dry   | ND              | ND              |
| Carbon Disulfide          | mg/kg - dry   | ND              | ND              |
| Carbon tetrachloride      | mg/kg - dry   | ND              | ND              |
| Chlorobenzene             | mg/kg - dry   | ND              | ND              |
| Chloroethane              | mg/kg - dry   | ND              | ND              |
| Chloroform                | mg/kg - dry   | ND              | ND              |
| Chloromethane             | mg/kg - dry   | ND              | ND              |
| cis-1,2-Dichloroethene    | mg/kg - dry   | ND              | ND              |
| cis-1,3-Dichloropropene   | mg/kg - dry   | ND              | ND              |
| Dibromochloromethane      | mg/kg - dry   | ND              | ND              |
| Ethylbenzene              | mg/kg - dry   | ND              | ND              |
| m,p-Xylene                | mg/kg - dry   | 0.3             | ND              |
| Methyl-t-Butyl Ether      | mg/kg - dry   | ND              | ND              |
| Methylene chloride        | mg/kg - dry   | ND              | ND              |
| o-Xylene                  | mg/kg - dry   | 0.54            | ND              |
| Styrene                   | mg/kg - dry   | ND              | ND              |
| Tetrachloroethene         | mg/kg - dry   | ND              | ND              |
| Toluene                   | mg/kg - dry   | ND              | ND              |

**Table B8 – VOC Sampling Results for Soil Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 12 - 20, 2007**

| Parameter                 | Sample Name   | SBL-S004-072007 | SBL-S005-072407 |
|---------------------------|---------------|-----------------|-----------------|
|                           | Sampling Date | 7/20/07         | 7/24/07         |
|                           | Sample Matrix | Soil            | Soil            |
|                           | Location      | West UST        | West UST        |
|                           | Units         | <b>Result</b>   | <b>Result</b>   |
| <b>Total VOCs</b>         |               |                 |                 |
| Total Xylenes             | mg/kg - dry   | 0.84            | ND              |
| trans-1,2-Dichloroethene  | mg/kg - dry   | ND              | ND              |
| trans-1,3-Dichloropropene | mg/kg - dry   | ND              | ND              |
| Trichloroethene           | mg/kg - dry   | ND              | ND              |
| Trichlorofluoromethane    | mg/kg - dry   | ND              | ND              |
| Vinyl Acetate             | mg/kg - dry   | ND              | ND              |
| Vinyl chloride            | mg/kg - dry   | ND              | ND              |

NOTES:

mg/kg - dry - Milligrams per kilogram dry weight

ND - Not detected

VOC - Volatile organic compound

ATTACHMENT B9  
PCB SAMPLING RESULTS FOR LIQUID SAMPLES



**Table B9 – PCB Sampling Results for Liquid Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 20, 2007**

|                      |                  |              |                 |              |
|----------------------|------------------|--------------|-----------------|--------------|
| <b>Sample Name</b>   | Flammable Liquid |              | SBL-W001-071907 |              |
| <b>Sampling Date</b> | 7/19/07          |              | 7/20/07         |              |
| <b>Sample Matrix</b> | Flammable Liquid |              | Liquid          |              |
| <b>Location</b>      | Various          |              | Southwest Sewer |              |
| <b>Parameter</b>     | <b>Results</b>   | <b>Units</b> | <b>Results</b>  | <b>Units</b> |
| <b>PCBs</b>          |                  |              |                 |              |
| Aroclor 1016         | ND               | mg/kg        | ND              | mg/L         |
| Aroclor 1221         | ND               | mg/kg        | ND              | mg/L         |
| Aroclor 1232         | ND               | mg/kg        | ND              | mg/L         |
| Aroclor 1242         | ND               | mg/kg        | ND              | mg/L         |
| Aroclor 1248         | ND               | mg/kg        | ND              | mg/L         |
| Aroclor 1254         | ND               | mg/kg        | ND              | mg/L         |
| Aroclor 1260         | ND               | mg/kg        | 0.038           | mg/L         |
| Aroclor 1262         | ND               | mg/kg        | ND              | mg/L         |
| Aroclor 1268         | ND               | mg/kg        | ND              | mg/L         |
| <b>Total PCBs</b>    | ND               | mg/kg        | 0.038           | mg/L         |

NOTES:

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

ND - Not detected

PCB - Polychlorinated biphenyl

ATTACHMENT B10  
SVOC SAMPLING RESULTS FOR LIQUID SAMPLES

**Table B10 – SVOC Sampling Results for Liquid Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 20, 2007**

|                             |                  |              |                 |              |
|-----------------------------|------------------|--------------|-----------------|--------------|
| <b>Sample Name</b>          | Flammable Liquid |              | SBL-W001-071907 |              |
| <b>Sampling Date</b>        | 7/19/2007        |              | 7/20/07         |              |
| <b>Sample Matrix</b>        | Flammable Liquid |              | Liquid          |              |
| <b>Location</b>             | Various          |              | Southwest Sewer |              |
| <b>Parameter</b>            | <b>Result</b>    | <b>Units</b> | <b>Results</b>  | <b>Units</b> |
| <b>SVOCs</b>                |                  |              |                 |              |
| 1,2,4-Trichlorobenzene      | ND               | mg/kg        | ND              | mg/L         |
| 1,2-Dichlorobenzene         | ND               | mg/kg        | ND              | mg/L         |
| 1,2-Diphenyl-hydrazine      | ND               | mg/kg        | ND              | mg/L         |
| 1,3-Dichlorobenzene         | ND               | mg/kg        | ND              | mg/L         |
| 1,4-Dichlorobenzene         | ND               | mg/kg        | ND              | mg/L         |
| 2,4,5-Trichlorophenol       | ND               | mg/kg        | ND              | mg/L         |
| 2,4,6-Trichlorophenol       | ND               | mg/kg        | ND              | mg/L         |
| 2,4-Dichlorophenol          | ND               | mg/kg        | ND              | mg/L         |
| 2,4-Dimethylphenol          | ND               | mg/kg        | ND              | mg/L         |
| 2,4-Dinitrophenol           | ND               | mg/kg        | ND              | mg/L         |
| 2,4-Dinitrotoluene          | ND               | mg/kg        | ND              | mg/L         |
| 2,6-Dichlorophenol          | ND               | mg/kg        | ND              | mg/L         |
| 2,6-Dinitrotoluene          | ND               | mg/kg        | ND              | mg/L         |
| 2-Chloronaphthalene         | ND               | mg/kg        | ND              | mg/L         |
| 2-Chlorophenol              | ND               | mg/kg        | 0.019           | mg/L         |
| 2-Methylnaphthalene         | 410              | mg/kg        | ND              | mg/L         |
| 2-Methylphenol              | ND               | mg/kg        | ND              | mg/L         |
| 2-Nitroaniline              | ND               | mg/kg        | ND              | mg/L         |
| 2-Nitrophenol               | ND               | mg/kg        | ND              | mg/L         |
| 3,3'-Dichlorobenzidine      | ND               | mg/kg        | ND              | mg/L         |
| 3-Nitroaniline              | ND               | mg/kg        | ND              | mg/L         |
| 3/4-Methylphenol            | ND               | mg/kg        | ND              | mg/L         |
| 4,6-Dinitro-2-methylphenol  | ND               | mg/kg        | ND              | mg/L         |
| 4-Bromophenyl phenyl ether  | ND               | mg/kg        | ND              | mg/L         |
| 4-Chloro-3-methylphenol     | ND               | mg/kg        | ND              | mg/L         |
| 4-Chloroaniline             | ND               | mg/kg        | ND              | mg/L         |
| 4-Chlorophenyl phenyl ether | ND               | mg/kg        | ND              | mg/L         |
| 4-Nitroaniline              | ND               | mg/kg        | ND              | mg/L         |
| 4-Nitrophenol               | ND               | mg/kg        | ND              | mg/L         |
| Acenaphthene                | ND               | mg/kg        | ND              | mg/L         |
| Acenaphthylene              | ND               | mg/kg        | ND              | mg/L         |
| Acetophenone                | ND               | mg/kg        | ND              | mg/L         |
| Aniline                     | ND               | mg/kg        | ND              | mg/L         |
| Anthracene                  | ND               | mg/kg        | ND              | mg/L         |

**Table B10 – SVOC Sampling Results for Liquid Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 20, 2007**

|                             |                  |              |                 |              |
|-----------------------------|------------------|--------------|-----------------|--------------|
| <b>Sample Name</b>          | Flammable Liquid |              | SBL-W001-071907 |              |
| <b>Sampling Date</b>        | 7/19/2007        |              | 7/20/07         |              |
| <b>Sample Matrix</b>        | Flammable Liquid |              | Liquid          |              |
| <b>Location</b>             | Various          |              | Southwest Sewer |              |
| <b>Parameter</b>            | <b>Result</b>    | <b>Units</b> | <b>Results</b>  | <b>Units</b> |
| <b>SVOCs</b>                |                  |              |                 |              |
| Benzidine                   | ND               | mg/kg        | ND              | mg/L         |
| Benzo[a]anthracene          | ND               | mg/kg        | ND              | mg/L         |
| Benzo[a]pyrene              | ND               | mg/kg        | 0.013           | mg/L         |
| Benzo[b]fluoranthene        | ND               | mg/kg        | 0.013           | mg/L         |
| Benzo[g,h,i]perylene        | ND               | mg/kg        | ND              | mg/L         |
| Benzo[k]fluoranthene        | ND               | mg/kg        | 0.012           | mg/L         |
| Benzoic acid                | ND               | mg/kg        | ND              | mg/L         |
| Benzyl alcohol              | ND               | mg/kg        | ND              | mg/L         |
| Bis(2-chloroethoxy)methane  | ND               | mg/kg        | ND              | mg/L         |
| Bis(2-chloroethyl)ether     | ND               | mg/kg        | ND              | mg/L         |
| Bis(2-chloroisopropyl)ether | ND               | mg/kg        | ND              | mg/L         |
| Bis(2-ethylhexyl)phthalate  | 87               | mg/kg        | 0.063           | mg/L         |
| Butyl benzyl phthalate      | ND               | mg/kg        | ND              | mg/L         |
| Carbazole                   | ND               | mg/kg        | ND              | mg/L         |
| Chrysene                    | ND               | mg/kg        | ND              | mg/L         |
| Di-n-butyl phthalate        | ND               | mg/kg        | ND              | mg/L         |
| Di-n-octyl phthalate        | ND               | mg/kg        | 0.052           | mg/L         |
| Dibenz[a,h]anthracene       | ND               | mg/kg        | ND              | mg/L         |
| Dibenzofuran                | ND               | mg/kg        | ND              | mg/L         |
| Diethyl phthalate           | ND               | mg/kg        | ND              | mg/L         |
| Dimethyl phthalate          | ND               | mg/kg        | ND              | mg/L         |
| Fluoranthene                | ND               | mg/kg        | ND              | mg/L         |
| Fluorene                    | ND               | mg/kg        | ND              | mg/L         |
| Hexachlorobenzene           | ND               | mg/kg        | ND              | mg/L         |
| Hexachlorobutadiene         | ND               | mg/kg        | ND              | mg/L         |
| Hexachlorocyclopentadiene   | ND               | mg/kg        | ND              | mg/L         |
| Hexachloroethane            | ND               | mg/kg        | ND              | mg/L         |
| Indeno[1,2,3cd]pyrene       | ND               | mg/kg        | ND              | mg/L         |
| Isophorone                  | ND               | mg/kg        | ND              | mg/L         |
| N-Nitrosodi-n-propylamine   | ND               | mg/kg        | ND              | mg/L         |
| N-Nitrosodimethylamine      | ND               | mg/kg        | ND              | mg/L         |
| N-Nitrosodiphenylamine      | 42               | mg/kg        | ND              | mg/L         |
| Naphthalene                 | 320              | mg/kg        | ND              | mg/L         |

**Table B10 – SVOC Sampling Results for Liquid Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 20, 2007**

|                      |                  |              |                 |              |
|----------------------|------------------|--------------|-----------------|--------------|
| <b>Sample Name</b>   | Flammable Liquid |              | SBL-W001-071907 |              |
| <b>Sampling Date</b> | 7/19/2007        |              | 7/20/07         |              |
| <b>Sample Matrix</b> | Flammable Liquid |              | Liquid          |              |
| <b>Location</b>      | Various          |              | Southwest Sewer |              |
| <b>Parameter</b>     | <b>Result</b>    | <b>Units</b> | <b>Results</b>  | <b>Units</b> |
| <b>SVOCs</b>         |                  |              |                 |              |
| Nitrobenzene         | ND               | mg/kg        | ND              | mg/L         |
| Pentachlorophenol    | ND               | mg/kg        | ND              | mg/L         |
| Phenanthrene         | 49               | mg/kg        | ND              | mg/L         |
| Phenol               | ND               | mg/kg        | ND              | mg/L         |
| Pyrene               | ND               | mg/kg        | ND              | mg/L         |
| Pyridine             | ND               | mg/kg        | ND              | mg/L         |
| Total Cresol         | ND               | mg/kg        | ND              | mg/L         |

NOTES:

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

ND - Not detected

SVOC - Semivolatile organic compound

ATTACHMENT B11  
VOC SAMPLING RESULTS FOR LIQUID SAMPLES

**Table B11 – VOC Sampling Results for Liquid Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 20, 2007**

| Sample Name               | Flammable Liquid |       | SBL-W001-071907 |       |
|---------------------------|------------------|-------|-----------------|-------|
| Sampling Date             | 7/19/2007        |       | 7/20/07         |       |
| Sample Matrix             | Flammable Liquid |       | Liquid          |       |
| Location                  | Various          |       | Southwest Sewer |       |
| Parameter                 | Result           | Units | Results         | Units |
| <b>VOCs</b>               |                  |       |                 |       |
| 1,1,1,2-Tetrachloroethane | ND               | mg/kg | ND              | mg/L  |
| 1,1,1-Trichloroethane     | ND               | mg/kg | ND              | mg/L  |
| 1,1,2,2-Tetrachloroethane | ND               | mg/kg | ND              | mg/L  |
| 1,1,2-Trichloroethane     | ND               | mg/kg | ND              | mg/L  |
| 1,1-Dichloroethane        | ND               | mg/kg | ND              | mg/L  |
| 1,1-Dichloroethene        | ND               | mg/kg | ND              | mg/L  |
| 1,2-Dichloroethane        | ND               | mg/kg | ND              | mg/L  |
| 1,2-Dichloropropane       | ND               | mg/kg | ND              | mg/L  |
| 2-Hexanone                | ND               | mg/kg | ND              | mg/L  |
| 4-Methyl-2-Pentanone      | 7,100            | mg/kg | ND              | mg/L  |
| Acetone                   | ND               | mg/kg | ND              | mg/L  |
| Acrolein                  | ND               | mg/kg | ND              | mg/L  |
| Acrylonitrile             | ND               | mg/kg | ND              | mg/L  |
| Benzene                   | 23               | mg/kg | ND              | mg/L  |
| Bromodichloromethane      | ND               | mg/kg | ND              | mg/L  |
| Bromoform                 | ND               | mg/kg | ND              | mg/L  |
| Bromomethane              | ND               | mg/kg | ND              | mg/L  |
| Carbon Disulfide          | ND               | mg/kg | ND              | mg/L  |
| Carbon tetrachloride      | ND               | mg/kg | ND              | mg/L  |
| Chlorobenzene             | ND               | mg/kg | ND              | mg/L  |
| Chloroethane              | ND               | mg/kg | ND              | mg/L  |
| Chloroform                | ND               | mg/kg | ND              | mg/L  |
| Chloromethane             | ND               | mg/kg | ND              | mg/L  |
| cis-1,2-Dichloroethene    | ND               | mg/kg | ND              | mg/L  |
| cis-1,3-Dichloropropene   | ND               | mg/kg | ND              | mg/L  |
| Dibromochloromethane      | ND               | mg/kg | ND              | mg/L  |
| Ethylbenzene              | 1,800            | mg/kg | ND              | mg/L  |
| m,p-Xylene                | 4,400            | mg/kg | ND              | mg/L  |
| Methyl-t-Butyl Ether      | 4.7              | mg/kg | ND              | mg/L  |
| Methylene chloride        | ND               | mg/kg | ND              | mg/L  |
| o-Xylene                  | 1,500            | mg/kg | ND              | mg/L  |
| Styrene                   | ND               | mg/kg | ND              | mg/L  |
| Tetrachloroethene         | ND               | mg/kg | ND              | mg/L  |
| Toluene                   | 940              | mg/kg | ND              | mg/L  |

**Table B11 – VOC Sampling Results for Liquid Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 20, 2007**

|                           |                  |              |                 |              |
|---------------------------|------------------|--------------|-----------------|--------------|
| <b>Sample Name</b>        | Flammable Liquid |              | SBL-W001-071907 |              |
| <b>Sampling Date</b>      | 7/19/2007        |              | 7/20/07         |              |
| <b>Sample Matrix</b>      | Flammable Liquid |              | Liquid          |              |
| <b>Location</b>           | Various          |              | Southwest Sewer |              |
| <b>Parameter</b>          | <b>Result</b>    | <b>Units</b> | <b>Results</b>  | <b>Units</b> |
| <b>VOCs</b>               |                  |              |                 |              |
| Total Xylenes             | 5,900            | mg/kg        | ND              | mg/L         |
| trans-1,2-Dichloroethene  | ND               | mg/kg        | ND              | mg/L         |
| trans-1,3-Dichloropropene | ND               | mg/kg        | ND              | mg/L         |
| Trichloroethene           | ND               | mg/kg        | ND              | mg/L         |
| Trichlorofluoromethane    | ND               | mg/kg        | ND              | mg/L         |
| Vinyl Acetate             | ND               | mg/kg        | ND              | mg/L         |
| Vinyl chloride            | ND               | mg/kg        | ND              | mg/L         |
| 2-Butanone                | ND               | mg/kg        | 0.32            | mg/L         |

NOTES:

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

ND - Not detected

VOC - Volatile organic compound



ATTACHMENT B12  
TOTAL METALS SAMPLING RESULTS FOR LIQUID SAMPLES

**Table B12 – Total Metals Sampling Results for Liquid Samples  
South Bend Lathe Removal  
South Bend, Indiana  
July 20, 2007**

|                     |                      |                 |
|---------------------|----------------------|-----------------|
| <b>Parameter</b>    | <b>Sample Name</b>   | SBL-W001-071907 |
|                     | <b>Sampling Date</b> | 7/20/07         |
|                     | <b>Sample Matrix</b> | Liquid          |
|                     | <b>Location</b>      | Southwest Sewer |
|                     | <b>Units</b>         | <b>Results</b>  |
| <b>Total Metals</b> |                      |                 |
| Arsenic             | mg/L                 | 1.4             |
| Barium              | mg/L                 | 0.31            |
| Cadmium             | mg/L                 | ND              |
| Chromium            | mg/L                 | 0.015           |
| Lead                | mg/L                 | ND              |
| Selenium            | mg/L                 | ND              |
| Silver              | mg/L                 | ND              |
| Mercury             | mg/L                 | ND              |

NOTES:

mg/L - Milligrams per liter

ND - Not detected