# Phase II Environmental Site Assessment of Chemserve Corporation

*9505 Copeland Street*
*Detroit, MI 48209*

***Prepared for:***

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***EQ Project Number 030228.0103***

## *October 20, 2008*

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**Site Assessment of**
**Chemserve Corporation**

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## SUMMARY

Environmental Quality Management, Inc. (EQ) was contracted by the United States Environmental Protection Agency Region V Emergency Response Branch (USEPA Region V ERB) to conduct an Environmental Site Assessment (ESA) for the Chemserve site (Site) located at 9505 Copeland Street, Detroit, Michigan. The Site is located approximately 0.5 miles to the north and east of the Rouge River.

The Superfund Technical Assessment and Response Team (START) conducted a site assessment of the Site in October 2007 to document the Site's condition and evaluate potential threats to human health, welfare, and the environment posed by conditions present at the Site. Several thousand containers (drums, totes, tanks, bags, cylinders, poly containers, small containers, laboratory containers) were present at the Site in various stages of decay. START also noted that several locations throughout the Site held containers which were leaking or had ruptured and spilled. The USEPA ERB has conducted removal activities of thousands of drums and other bulk containers from the Site since early 2008.

To address other potential environmental issues, EQ proposed to compile historically available information about the Site, then collect and analyze three (3) groundwater and ten (10) soil samples. Each sample was analyzed for the thirteen (13) Priority Pollutant metals, polychlorinated biphenyl compounds (PCBs), volatile organic compounds (VOCs), Semivolatile organic compounds (SVOCs) [including polycyclic aromatic hydrocarbon compounds (PAHs)], and total petroleum hydrocarbons (TPH) both gasoline range organics (TPH GRO) and diesel range organics (TPH DRO).

EQ would finally present and compare the soil and groundwater analytical results to the Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil and groundwater exposures contained in the Michigan Part 201 Generic Cleanup Criteria and Screening Levels.

# SECTION 1

# INTRODUCTION

Environmental Quality Management, Inc. (EQ) was contracted by the United States Environmental Protection Agency Region V Emergency Response Branch (USEPA Region V ERB) to conduct an Environmental Site Assessment (ESA) for the Chemserve site (Site) located at 9505 Copeland Street, Detroit, Michigan. The Site is located approximately 0.5 miles to the north and east of the Rouge River. Figure 1 shows the approximate location of the site.

The Site comprises approximately 3 acres located south of Interstate 75 and north of Copeland Avenue and the Detroit Water Sewerage Department. Railroad lines and associated depot property surround the southwestern and western portion of the Site, with additional tracks and Interstate 75 to the north of the Site. The eastern adjoining properties include Scotts Container Services as well as a Community Center with public playground facilities. The Site has most recently operated as a chemical storage site, with many historical buildings and onsite structures in various states of disrepair. Figure 2 is a site map.

The Superfund Technical Assessment and Response Team (START) conducted a site assessment of the Site in October 2007 to document the Site's condition and evaluate potential threats to human health, welfare, and the environment posed by conditions present at the Site. Several thousand containers (drums, totes, tanks, bags, cylinders, poly containers, small containers, laboratory containers) were present at the Site in various stages of decay. START also noted that several locations throughout the Site held containers which were leaking or had ruptured and spilled. The USEPA ERB has conducted removal activities of thousands of drums and other bulk containers from the Site since early 2008. Information available to EQ prior to the Phase II site assessment suggested the following chemicals and materials being used, stored, or generated at the Site:

- Acids (perchloric, acetic, hydrochloric, sulfuric, nitric, phosphoric, muriatic, and citric);
- Numerous dyes of unknown composition or origin which could contain metals;
- Caustic soda and soda ash;
- Ammonia;
- Oxidizers (hydrogen peroxide);
- Formaldehyde;
- Calcium chloride;
- Ethylene glycol and glycol ether;
- Mineral spirits, gasoline, and used oil;

- Argon, propane, and compressed oxygen;
- Mercury in thermostats and switches;
- Polynuclear aromatic hydrocarbons (PAH compounds) associated with the railroad lines surrounding the property;
- Asbestos containing materials (ACM) suspected in building materials.
- Lead-containing paint suspected at the Site;
- PCBs in a pole-mounted transformer set and in electrical equipment;
- Spills of unknown chemicals; and
- Uncontrolled dumping.

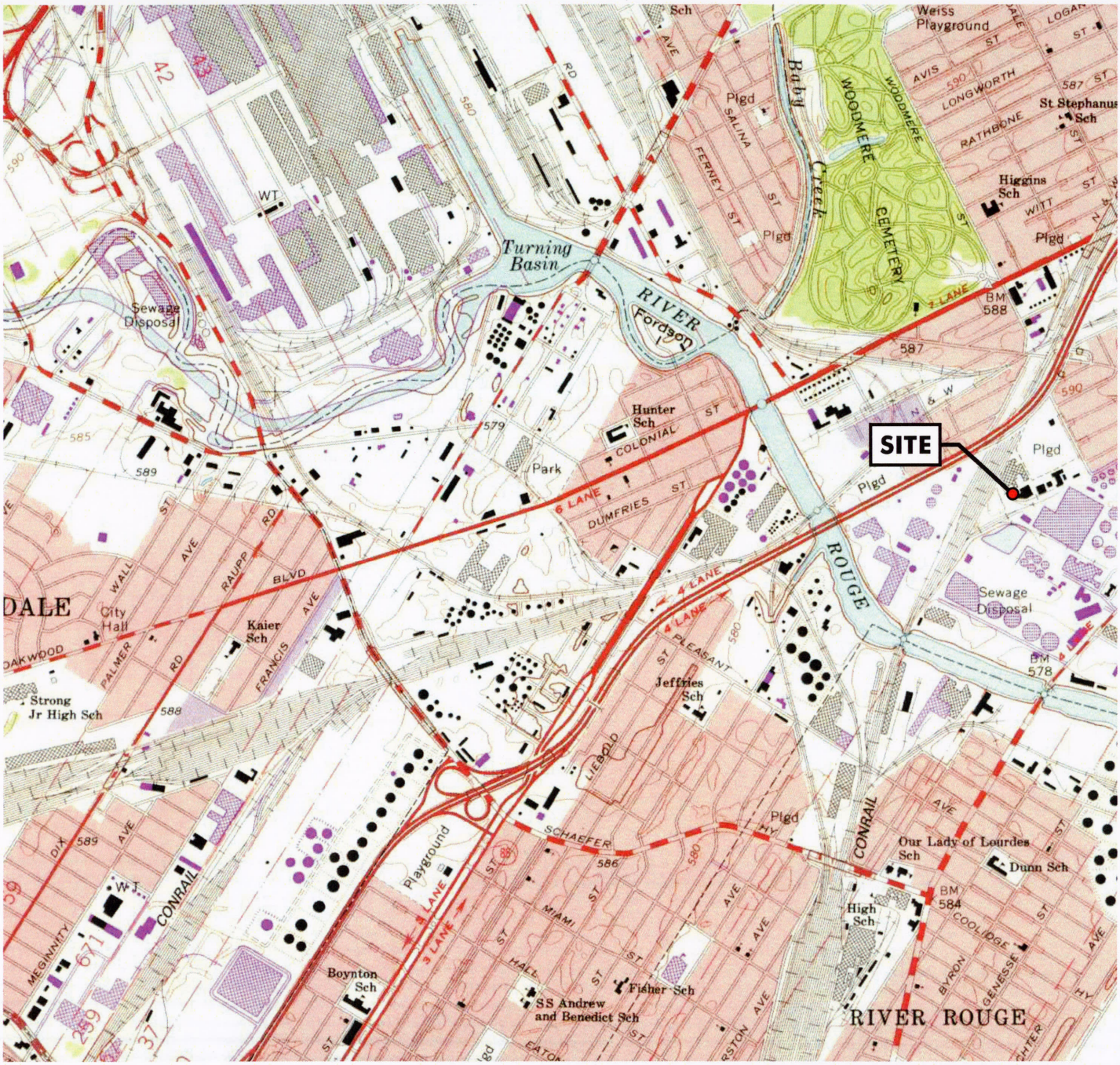
To address these potential environmental issues, EQ proposed to complete the following tasks:

- Compile historically available information about the Site to identify conditions (e.g., underground storage tanks on neighboring and upgradient properties, historical use of the property as a manufacturing facility or automobile service station, reported spills from the railroad operation, etc.) that may have resulted in the release of petroleum compounds or hazardous materials to the site;

- Determine environmental conditions associated with the Chemserve operations at the Site through the collection and analysis of three (3) groundwater and ten (10) soil samples. Four (4) soil samples were taken in the open "courtyard" areas where containers were stored directly on top of surface soils without secondary containment. Three (3) soil samples were taken from building interior areas via floor boring prior to Geoprobe© insertion. Three (3) soil and groundwater samples were taken from placement of temporary monitoring wells placed at the northeast, southernmost, and northwest corners of the Site.

  Each sample was analyzed for the thirteen (13) Priority Pollutant metals, polychlorinated biphenyl compounds (PCBs), volatile organic compounds (VOCs), Semivolatile organic compounds (SVOCs) [including polycyclic aromatic hydrocarbon compounds (PAHs)], and total petroleum hydrocarbons (TPH) both gasoline range organics (TPH GRO) and diesel range organics (TPH DRO).

- Compare the soil and groundwater analytical results to the Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil and groundwater exposures contained in the Michigan Part 201 Generic Cleanup Criteria and Screening Levels.

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N

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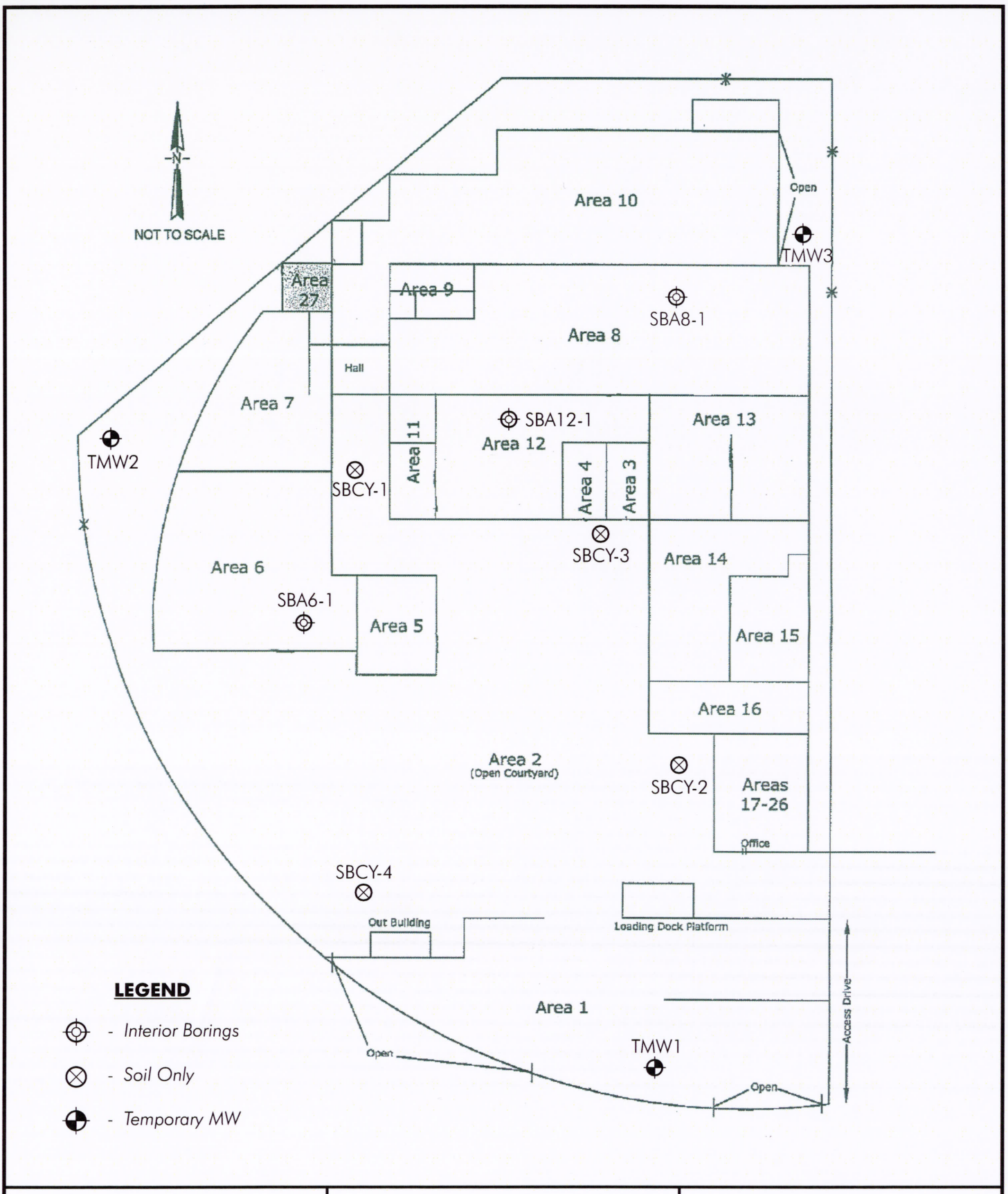
|---|---|---|---|
| **ENVIRONMENTAL QUALITY MANAGEMENT, INC.**<br>1800 Carillon Boulevard<br>Cincinnati, Ohio 45240 | **BASE MAP SOURCE:**<br>USGS 7 1/2 minute topographic quadrangle map. Dearborn, MI; 1968 (photorevised 1983). | **Reference:**<br>ChemServe<br>9505 Copland Street<br>Detroit, MI 48209<br><br>**Date:** October 2008 | Figure 1.<br>General Location Map |

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1800 Carillon Boulevard
Cincinnati, Ohio 45240

Figure 2. Site Map
October 2008

REFERENCE:

**ChemServe**
9505 Copland Street
Detroit, MI 48209

# SECTION 2.0

# HISTORICAL INFORMATION

EQ contracted Environmental Data Resources, Inc. (EDR) of Milford, Connecticut, to search Federal and State environmental databases for properties within ASTM standard radii of the site, as required by EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) and *ASTM Standard Practice for Environmental Site Assessments*, E 1527-05. The EDR report (dated September 24, 2008) contains the sites or occurrences identified by the database search. The complete EDR Database Search and Environmental Lien report is contained in Appendix A. EDR also provided available City Directory Abstracts, historical topographic maps, Sanborn® Maps and aerial photographs of the Site, which are attached in Appendix B.

## 2.1 DATABASE RESULTS

The EDR database report (Appendix A) was reviewed to determine if there are sites or conditions located at or adjacent to the Site that may have resulted in the release of hazardous substances or petroleum compounds to the site. The following conditions were identified at or adjacent to the Site:

- The Site is identified as a CERCLIS Removal Only Site, but not a Federal Facility or National Priority List (NPL) site. The CERCLIS entries list a Universal Administrative Order issued 3/27/2008 and Removal Action started 4/21/2008. Enforcement Actions listed for the Site include CERCLA Section 106 Administrative Order for Response Action/ Immediate Hazard.

- The southeastern adjoining property, Scotts Container Services (Former Wayne Chemical), is listed in the US Brownfields database under the Wayne County Brownfield Redevelopment Authority. The Former Wayne Chemical site became a US Brownfield in May 2006, and has listed several affected soil and groundwater projects completed to date including lead contamination cleanup, other metals contamination cleanup, PAH contamination cleanup, petroleum contamination cleanup, and VOC contamination cleanup.

  Former Wayne Chemical is described in the US Brownfields database as Industrial use since at least 1918. Occupants include Wayne Soap Company, Wayne Chemical Products, Detroit Protein Products & Fire Protection, Buffalo Fire App., Fire Protection Co., Behr Properties, Detrex Chem. Corp., Meade Chem Co., and current use as a vacant gravel lot.

- Wayne Metal Working Division is listed at the same physical address as the Former Wayne Chemical property, adjoining the Site to the southeast. Wayne Metal is a CERCLIS Removal Only Site, but not a Federal Facility or NPL site. The Wayne Metal site completed the Discovery phase in 1998 and Preliminary Assessment in 2000. The Wayne Metal site was then placed on the No Further Remedial Action planned list, with a notation that it was "Referred to Removal".

## 2.2 ENVIRONMENTAL LIENSEARCH AND CHAIN OF OWNERSHIP REPORT

A search of records associated with the Site list a Warranty Deed vested to Chem-Serve Corporation from Western Storage & Warehouse dated November 1972. There are no environmental liens or other activity and use limitations found for the Site.

The Chain of Ownership report lists the warranty deed in 1941, belonging to Max and Minnie Stotter, transferring to Mitchell and Smith, Inc. In 1946, Mitchell and Smith transfer the deed to Sheller Manufacturing Corp, who then transfers the deed to Wayne Chemical Products in 1953. Wayne Chemical transfers the deed to Behr Properties, Inc., in 1967, and the deed transfers again in 1969 to Western Storage and Warehouse. Western Storage and Warehouse transfer the deed to Chem-Save Corporation in 1972, and no other deed transfers are recorded after that date.

## 2.3 SANBORN® MAPS

Sanborn® Maps (Appendix B) were reviewed for the years 1923, 1950, 1952, 1957, 1961, 1978, 1989, and 1992. The following conditions were identified at or adjacent to the Site.

The 1923 Sanborn map depicts the Site containing the southernmost building (which adjoins a rail line spur) as Nelson Transfer & Warehouse Company. Copeland Avenue is visible to the east, beyond which is the Wayne Soap Company. To the south are Joseph Fluke Soap Manufacturing and Kull & Bollen Beef Company, as well as residential development. There is no development listed on the northern portion of the Site, except rail lines to the northwest.

The 1950 & 1952 Sanborn maps show many of the building footprints which currently exist at the Site. The Site is listed as Mitchell & Smith Company, division of Sheller Manufacturing Company, manufacturer of cork products. The adjoining southeastern property is Wayne Soap Company & Wayne Chemical Products Company & Detroit Protein Products Company. Southern properties beyond the rail lines to the south are Kull & Bullen Beef, followed by residential development.

The 1957 Sanborn map shows several name changes, but no significant change in building development. The Site is listed as Property of Wayne Chemical Products Company, Various Occupancies. The southeastern adjoining property is Wayne Chemical Products Company, and beyond the rail lines to the south is now Cohen & Levenberg. The 1961 Sanborn shows no significant changes from the previous map.

The 1978 Sanborn shows the site listed as Chem-Serve Corporation. The northeastern adjoining property is now listed as "Playground", followed to the south by Wayne Chemical Products, and then by Detroit Water & Sewage Department (DWSD) beyond Copeland and the rail lines south of the Site. Residential development has been completely replaced by DWSD.

There are no significant changes (from 1978) to the Site or adjoining properties in the 1989 or 1992 Sanborns.

## 2.4 AERIAL PHOTOGRAPHS

Aerial photographs (Appendix B) were reviewed for the years 1937, 1949, 1957, 1961, 1972, 1985, 1994, 2000 and 2005. The following conditions were identified at or adjacent to the site.

The 1937 aerial is fairly dark, but the rail lines surrounding the western and southern boundaries of the Site are visible as well as residential development to the southeast.

The 1949 aerial depicts the Site with existing building footprints, undeveloped land to the northeast and southwest (beyond a rail spur), industrial buildings to the east and south, and residential "row house" development to the southeast.

The 1957 and 1961 aerials show a small commercial building and two circular non-vegetated areas to the adjoining northeast of the Site. This configuration matches up to other historical information indicating a public park area with playgrounds. There are no other significant changes from this configuration to the 1957 and 1961 aerials.

The 1972 aerial is grainy and lacks some detail, however, Interstate 75 is newly present to the north and the southern adjoining property has clearly undergone significant site redevelopment. Construction of tanks and other equipment which would be consistent with a large water or wastewater treatment facility is visible. Neither the Site nor any of the other adjoining properties appear to have significant changes from the previous aerials.

The 1985 aerial depicts the Site and northern, western, eastern adjoining properties appear with no significant changes from the previous aerials. The southern adjoining property, DWSD, has completely replaced previous residential development. There are no other significant changes from this configuration to the 1994 and 2000 aerials.

The 2005 aerial photograph shows little change to the Site, but the eastern adjoing property which is a public park/playground appears to have a larger community building structure from the 2000 photograph.

## 2.5 HISTORICAL USGS TOPOGRAPHIC MAPS

Historical Topographic Maps (Appendix B) were reviewed for the years 1905, 1952, 1968, 1973, and 1983. The following conditions were identified at or adjacent to the site.

The 1905 map shows undeveloped property at the Site, with rail lines to the north and west and residential development to the east and south.

The 1952 map shows two buildings at the Site which are consistent with some existing building footprints. Adjoining properties show undeveloped or residential property to the east and south, rail lines and rail yards to the north and west.

The 1968 map shows the Site with a complete set of building footprints consistent with its current configuration. The eastern adjoining properties appear to contain a set of manufacturing buildings consistent with Wayne Chemical as well as a site labeled "Playground". The southern adjoining properties have residential development and select water treatment equipment visible. Interstate 75 is visible to the north of the Site; there is no other change in the northern or western adjoining property characteristics.

The 1973 and 1983 maps show little change except for further water treatment equipment installation on the southern adjoining property, DWSD.

## 2.6 POTENTIAL HISTORICAL CONDITIONS

After reviewing the EDR database report, the Sanborn® maps, historical topographic maps, chain of ownership and the aerial photographs, EQ did not identify any previously unknown recognized environmental conditions on the Site or adjoining properties that would require additional investigation beyond the scope of this Phase II ESA.

# SECTION 3.0

# SITE ASSESSMENT ACTIVITIES

To investigate the potential concerns at the site, EQ implemented a field sampling effort to obtain representative samples for chemical analysis. The field investigation was completed on October 2, 2008. The field sampling effort was designed by Stephanie Werner, EQ's Due Diligence Environmental Professional, completed by Aaron Roski, EQ's Field Specialist, and Pat Hogan of Terraprobe, GeoProbe® operator. The following describes the field investigation.

## 3.1 SAMPLING AND DEVELOPMENT

EQ collected soil samples at ten (10) locations and groundwater samples at three (3) locations shown on Figure 3. The samples were collected using a GeoProbe® soil sampling system, and peristaltic pumping with new unused Teflon tubing. Duplicate samples for one (1) soil and one (1) groundwater sample were also submitted. The following describes the procedures used.

### 3.1.1 Soil Samples

Ten (10) borings (including three temporary monitoring wells) were installed using Terraprobe's truck-mounted, direct push technology (GeoProbe®) sampling system. These ten borings were intended to investigate historical hazardous material storage areas, including exterior courtyard areas and beneath interior building floors at the Site.

The GeoProbe® drives a 2-inch diameter, 4-foot long stainless steel tube containing a new disposable acetate liner into the subsurface to obtain soil samples. The soil is forced into the liner at continuous 4-foot intervals, and the liner is then retrieved to the surface. The acetate liner is cut open and the field geologist visually inspects the soil and screens the soils for volatile organic compounds with a photoionization detector. All ten borings were twelve feet deep and had one interval submitted as a soil sample for analysis.

Representative soil material from the tube liner was placed in one or two new, pre-cleaned 4-ounce glass jars with Teflon septum. The number of jars used was dependent on the analytical suite. The soil samples were submitted for analysis, under appropriate chain-of-custody controls, to TestAmerica Laboratories, located in North Canton, Ohio, on October 2, 2008.

### 3.1.2 Temporary Monitoring Well Placement and Groundwater Samples

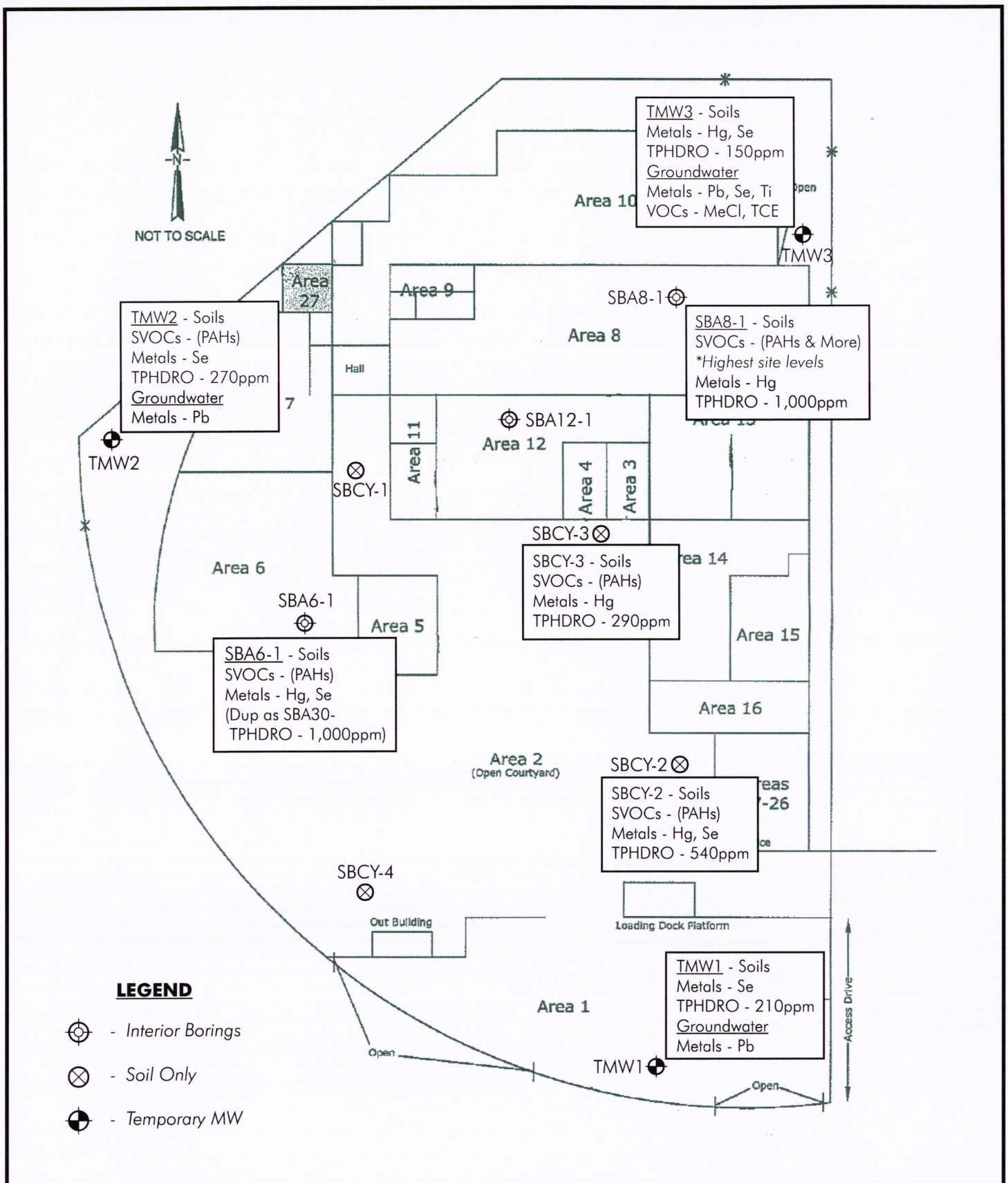
EQ was retained to obtain a groundwater samples at three points along the property boundaries of the Site. To obtain the samples, temporary monitoring wells were installed. These wells were to be of sufficient depth and in contact with saturated soil for sufficient time for groundwater to be available for sampling.

On October 2, 2008, EQ and Terraprobe mobilized a GeoProbe soil sampling system to install temporary monitoring wells at the approximate locations of borings TMW-1, TMW-2, and TMW-3. Refer to Figures 2 or 3 for the locations of the temporary wells.

Depth to water was measured and total depth of each well recorded on a Groundwater Sampling Log. EQ calculated the volume of water in each well and purged three well volumes. During purging, EQ measured pH, temperature, conductivity, and turbidity, also recorded on the Groundwater Sampling Logs. Appendix D contains the Groundwater Sampling Logs for all three wells sampled.

At TMW-1 groundwater was encountered at about 6 feet below ground surface in wet sand and clay. At location TMW-2 groundwater was encountered at about 5 feet below ground surface in sand and clay. TMW-3 encountered groundwater at about 7 feet below ground surface in loam and clay. TMW-4 was a duplicate sample set pulled from TMW-1.

EQ collected a sample of groundwater from each temporary well using a peristaltic pump. At each location, new flexible tubing was lowered to near the bottom of the well and several liters of water were evacuated prior to sample collection. The groundwater samples were pumped, with a low rate, directly into appropriate sample containers supplied by TestAmerica. EQ also prepared the following QA/QC samples for analysis: one trip blank (VOCs only), and one duplicate sample. The duplicate sample was prepared from well TMW-1. The groundwater samples were submitted for analysis, under appropriate chain-of-custody controls, to TestAmerica Laboratories, located in North Canton, Ohio, on October 2, 2008.

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1800 Carillon Boulevard
Cincinnati, Ohio 45240

Figure 3. Phase II Sampling
October 2008

REFERENCE:

**ChemServe**
9505 Copland Street
Detroit, MI 48209

# SECTION 4

# ANALYTICAL RESULTS

The laboratory reports for the soil and groundwater samples collected at the site are contained in Appendix C. The following subsections describe the results of analysis by area of investigation. Figure 3 shows the approximate locations of each soil boring. The soil and groundwater samples were submitted for analysis of the following analytes:

- VOCs by EPA Method 8260A,
- SVOCs (including PAH compounds) by EPA Method 8270C,
- Priority Pollutant metals by EPA Methods 6020 and 7470,
- TPH GRO and TPH DRO by EPA Method 8015B, and
- PCBs by Method 8082.

A summary of analytical results is presented as Tables 1 - 6, laboratory analytical reports are provided in Appendix C. Tables 1 – 6 present only those analytes reported to be present above their respective laboratory method detection limits (MDLs). Shaded cells in Tables 1 – 6 indicate that the sample has exceeded one or more regulatory limits for that parameter.

Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil and groundwater exposures contained in the Michigan Part 201 Generic Cleanup Criteria and Screening Levels have been used for comparison of VOCs, SVOCs, Priority Pollutant metals, and PCBs. There are no Michigan Part 201 Generic Cleanup Criteria for total petroleum hydrocarbon analytes, thus TPH GRO and TPH DRO are listed only if above the MDL. .

## 4.1 COURTYARD AREAS

Four (4) soil borings were installed in the open courtyard area of the Site. One soil sample representing 4-feet of material from each of the four borings was analyzed for VOCs, SVOCs, Priority Pollutant metals, TPH DRO and TPH GRO, and PCBs.

### 4.1.1 SBCY-1 (4'-6')

This boring was installed between the building containing Areas 6/7 and Area 11, just south of the covered breezeway (labeled "Hall" on Fig. 3). No VOCs, SVOCs, Priority Pollutant metals, or PCBs were reported above Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures. TPH GRO was not present above the MDL, and TPH DRO was reported to be present at 44 mg/kg.

#### 4.1.2 SBCY-2 (3'-5')

This boring was installed outside the west wall of the building containing the (former) Office and lab areas, which was known to have bulk storage of chemicals. No VOCs or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels.

The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures:

- SVOC fluoranthene,
- Mercury and selenium

TPH GRO was present at 2200 ug/kg, and TPH DRO was reported to be present at 540 mg/kg.

#### 4.1.3 SBCY-3 (5'-7')

This boring was installed outside the semi-trailer loading ramps adjacent to Areas 3 & 4. No VOCs or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels. The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures:

- SVOCs benzo(a)pyrene, fluoranthene, and phenanthrene;
- Mercury

TPH GRO was not present above the MDL and TPH DRO was reported to be present at 290 mg/kg.

#### 4.1.4 SBCY-4 (2'-4')

This boring was installed in the truck turn-around area closest to Area 1. No VOCs, SVOCs, Priority Pollutant Metals or PCBs were reported above Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures.

TPH GRO was not present above the MDL and TPH DRO was reported to be present at 3.5 mg/kg.

## 4.2 BUILDING INTERIORS

Three (3) soil borings were installed in current of former building interior areas of the Site, following floor boring activities. One soil sample representing 4-feet of material from each of the four borings was analyzed for VOCs, SVOCs, Priority Pollutant metals, TPH DRO and TPH GRO, and PCBs.

### 4.2.1 SBA6-1 (2'-4')

This boring was installed in the southeast corner of the building containing Area 6. No VOCs or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels. The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures:

- SVOCs fluoranthene, and phenanthrene;
- Mercury and selenium

TPH GRO was present at 4600 ug/kg and TPH DRO was reported to be present at 470 mg/kg.

### 4.2.2 SBA8-1 (4'-5')

This boring was installed in the southeast corner of the former building containing Area 8. No VOCs, Priority Pollutant Metals or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels. The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures:

- SVOCs acenaphthene, benzo(a)pyrene, benzo(b)fluroanthene, carbazole, chrysene, dibenz(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, and phenanthrene

TPH GRO was not present above the MDL and TPH DRO was reported to be present at 1000 mg/kg.

### 4.2.3 SBA12-1 (2'-4')

This boring was installed in the approximate center of the building containing Area 12. No VOCs, SVOCs, Priority Pollutant Metals or PCBs were reported above Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures.

TPH GRO was present at 4500 ug/kg and TPH DRO was reported to be present at 8.5 mg/kg.

## 4.3 TEMPORARY MONITORING WELLS

Three (3) temporary monitoring wells were installed in roughly equidistant corners of the Site property boundaries. One soil sample representing 4-feet of material from each of the three borings was analyzed for VOCs, SVOCs, Priority Pollutant metals, TPH DRO and TPH GRO, and PCBs. In addition, one groundwater sample representing post-purge and stabilized static well conditions from each of the wells was analyzed for VOCs, SVOCs, Priority Pollutant metals, TPH DRO and TPH GRO, and PCBs.

### 4.3.1 TMW-1 (4'-6')

This well was installed in the southernmost area of the Site.

*SOIL:* No VOCs, SVOCs or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels. The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures:

- Selenium

TPH GRO was not present above the MDL and TPH DRO was reported to be present at 210 mg/kg.

*GROUNDWATER:* No VOCs, SVOCs or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels. The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial groundwater exposures:

- Lead

TPH GRO was not present above the MDL and TPH DRO was reported to be present at 450 ug/L.

### 4.3.2 TMW-2(3'-5')

This well was installed in the southernmost area of the Site.

*SOIL:* No VOCs or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels. The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures:

- SVOCs fluoranthene, and phenanthrene;
- Selenium

TPH GRO was not present above the MDL and TPH DRO was reported to be present at 270 mg/kg.

*GROUNDWATER:* No VOCs, SVOCs or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels. The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial groundwater exposures:

- Lead

TPH GRO was not present above the MDL and TPH DRO was reported to be present at 720 ug/L.

#### 4.3.3 TMW-3(5'-7')

This well was installed in the southernmost area of the Site.

*SOIL:* No VOCs, SVOCs or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels. The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial soil exposures:

- Mercury and selenium

TPH GRO was not present above the MDL and TPH DRO was reported to be present at 150 mg/kg.

*GROUNDWATER:* No SVOCs or PCBs were reported above Michigan Part 201 Generic Cleanup Criteria and Screening Levels. The following **analytes were found at or above** the Michigan Groundwater Surfacewater Interface Protection Criteria and Direct Contact standards for Industrial groundwater exposures:

- VOCs - methylene chloride and tetrachloroethene
- Lead, Selenium and Thallium

TPH GRO was not present above the MDL and TPH DRO was reported to be present at 170 ug/L.

Table 1- Metals in Soils

| | | PARAMETER | RESULT | UNITS | MICHIGAN PART 201, GROUNDWATER SURFACEWATER INTERFACE | MICHIGAN PART 201, INDUSTRIAL SOIL, DIRECT CONTACT |
|---|---|---|---|---|---|---|
| SBA12-1-(2'-4') | PP Metals | Arsenic | 5.4 | mg/kg | 70 | 37 |
| SBA12-1-(2'-4') | PP Metals | Beryllium | 0.11 B | mg/kg | -- | 1,600 |
| SBA12-1-(2'-4') | PP Metals | Chromium | 10.5 | mg/kg | -- | 1,000,000 |
| SBA12-1-(2'-4') | PP Metals | Copper | 8 | mg/kg | -- | 73,000 |
| SBA12-1-(2'-4') | PP Metals | Lead | 10.9 | mg/kg | -- | 900 |
| SBA12-1-(2'-4') | PP Metals | Mercury | 0.034 B | mg/kg | 0.1 | 580 |
| SBA12-1-(2'-4') | PP Metals | Nickel | 9.9 | mg/kg | -- | 150,000 |
| SBA12-1-(2'-4') | PP Metals | Zinc | 32.6 | mg/kg | -- | 630,000 |
| | | | | | | |
| SBA30-1-(2'-4') | PP Metals | Arsenic | 2.6 | mg/kg | 70 | 37 |
| SBA30-1-(2'-4') | PP Metals | Cadmium | 0.16 | mg/kg | -- | 2,100 |
| SBA30-1-(2'-4') | PP Metals | Chromium | 6.5 | mg/kg | -- | 1,000,000 |
| SBA30-1-(2'-4') | PP Metals | Copper | 6.3 | mg/kg | -- | 73,000 |
| SBA30-1-(2'-4') | PP Metals | Lead | 106 | mg/kg | -- | 900 |
| SBA30-1-(2'-4') | PP Metals | Nickel | 6.8 | mg/kg | -- | 150,000 |
| SBA30-1-(2'-4') | PP Metals | Zinc | 51.4 | mg/kg | -- | 630,000 |
| | | | | | | |
| SBA6-1-(2'-4') | PP Metals | Antimony | 2.1 | mg/kg | 94 | 670 |
| SBA6-1-(2'-4') | PP Metals | Arsenic | 24.1 | mg/kg | 70 | 37 |
| SBA6-1-(2'-4') | PP Metals | Beryllium | 0.86 | mg/kg | -- | 1,600 |
| SBA6-1-(2'-4') | PP Metals | Cadmium | 0.98 | mg/kg | -- | 2,100 |
| SBA6-1-(2'-4') | PP Metals | Chromium | 11.3 | mg/kg | -- | 1,000,000 |
| SBA6-1-(2'-4') | PP Metals | Copper | 143 | mg/kg | -- | 73,000 |
| SBA6-1-(2'-4') | PP Metals | Lead | 771 | mg/kg | -- | 900 |
| **SBA6-1-(2'-4')** | **PP Metals** | **Mercury** | **0.97** | **mg/kg** | **0.1** | 580 |
| SBA6-1-(2'-4') | PP Metals | Nickel | 13.7 | mg/kg | -- | 150,000 |
| **SBA6-1-(2'-4')** | **PP Metals** | **Selenium** | **0.94** | **mg/kg** | **0.4** | 9,600 |
| SBA6-1-(2'-4') | PP Metals | Zinc | 701 | mg/kg | -- | 630,000 |
| | | | | | | |
| SBA8-1-(4'-5') | PP Metals | Arsenic | 8.3 | mg/kg | 70 | 37 |
| SBA8-1-(4'-5') | PP Metals | Beryllium | 0.3 | mg/kg | -- | 1,600 |
| SBA8-1-(4'-5') | PP Metals | Chromium | 14.9 | mg/kg | -- | 1,000,000 |
| SBA8-1-(4'-5') | PP Metals | Copper | 19.6 | mg/kg | -- | 73,000 |
| SBA8-1-(4'-5') | PP Metals | Lead | 50 | mg/kg | -- | 900 |
| **SBA8-1-(4'-5')** | **PP Metals** | **Mercury** | **0.88** | **mg/kg** | **0.1** | 580 |
| SBA8-1-(4'-5') | PP Metals | Nickel | 8.5 | mg/kg | -- | 150,000 |
| SBA8-1-(4'-5') | PP Metals | Zinc | 89.1 | mg/kg | -- | 630,000 |
| | | | | | | |
| SBCY1-1-(4'-6') | PP Metals | Antimony | 0.49 B | mg/kg | 94 | 670 |
| SBCY1-1-(4'-6') | PP Metals | Arsenic | 1.4 | mg/kg | 70 | 37 |
| SBCY1-1-(4'-6') | PP Metals | Cadmium | 0.058 B | mg/kg | -- | 2,100 |
| SBCY1-1-(4'-6') | PP Metals | Chromium | 3.3 | mg/kg | -- | 1,000,000 |
| SBCY1-1-(4'-6') | PP Metals | Copper | 2.5 | mg/kg | -- | 73,000 |
| SBCY1-1-(4'-6') | PP Metals | Lead | 88.5 | mg/kg | -- | 900 |
| SBCY1-1-(4'-6') | PP Metals | Nickel | 2.7 | mg/kg | -- | 150,000 |
| SBCY1-1-(4'-6') | PP Metals | Zinc | 20.2 | mg/kg | -- | 630,000 |
| | | | | | | |
| SBCY2-1-(3'-5') | PP Metals | Antimony | 1.9 | mg/kg | 94 | 670 |
| SBCY2-1-(3'-5') | PP Metals | Arsenic | 13.3 | mg/kg | 70 | 37 |
| SBCY2-1-(3'-5') | PP Metals | Beryllium | 0.38 | mg/kg | -- | 1,600 |
| SBCY2-1-(3'-5') | PP Metals | Cadmium | 0.8 | mg/kg | -- | 2,100 |
| SBCY2-1-(3'-5') | PP Metals | Chromium | 12.7 | mg/kg | -- | 1,000,000 |
| SBCY2-1-(3'-5') | PP Metals | Copper | 57.9 | mg/kg | -- | 73,000 |
| SBCY2-1-(3'-5') | PP Metals | Lead | 279 | mg/kg | -- | 900 |
| **SBCY2-1-(3'-5')** | **PP Metals** | **Mercury** | **0.4** | **mg/kg** | **0.1** | 580 |
| SBCY2-1-(3'-5') | PP Metals | Nickel | 8.2 | mg/kg | -- | 150,000 |
| **SBCY2-1-(3'-5')** | **PP Metals** | **Selenium** | **0.45 B** | **mg/kg** | **0.4** | 9,600 |
| SBCY2-1-(3'-5') | PP Metals | Zinc | 290 | mg/kg | -- | 630,000 |
| | | | | | | |
| SBCY3-1-(5'-7') | PP Metals | Antimony | 3.2 | mg/kg | 94 | 670 |
| SBCY3-1-(5'-7') | PP Metals | Arsenic | 15.7 | mg/kg | 70 | 37 |
| SBCY3-1-(5'-7') | PP Metals | Beryllium | 0.55 | mg/kg | -- | 1,600 |
| SBCY3-1-(5'-7') | PP Metals | Cadmium | 3.1 | mg/kg | -- | 2,100 |
| SBCY3-1-(5'-7') | PP Metals | Chromium | 37.2 | mg/kg | -- | 1,000,000 |
| SBCY3-1-(5'-7') | PP Metals | Copper | 136 | mg/kg | -- | 73,000 |
| SBCY3-1-(5'-7') | PP Metals | Lead | 558 | mg/kg | -- | 900 |

Table 1- Metals in Soils

| | | PARAMETER | RESULT | UNITS | MICHIGAN PART 201, GROUNDWATER SURFACEWATER INTERFACE | MICHIGAN PART 201, INDUSTRIAL SOIL, DIRECT CONTACT |
|---|---|---|---|---|---|---|
| **SBCY3-1-(5'-7')** | **PP Metals** | **Mercury** | **2.2** | **mg/kg** | **0.1** | 580 |
| SBCY3-1-(5'-7') | PP Metals | Nickel | 15.1 | mg/kg | -- | 150,000 |
| SBCY3-1-(5'-7') | PP Metals | Silver | 0.15 B | mg/kg | 0.5 | 9,000 |
| SBCY3-1-(5'-7') | PP Metals | Zinc | 1110 | mg/kg | -- | 630,000 |
| | | | | | | |
| SBCY4-1-(2'-4') | PP Metals | Arsenic | 5.4 | mg/kg | 70 | 37 |
| SBCY4-1-(2'-4') | PP Metals | Beryllium | 0.095 B | mg/kg | -- | 1,600 |
| SBCY4-1-(2'-4') | PP Metals | Chromium | 13.4 | mg/kg | -- | 1,000,000 |
| SBCY4-1-(2'-4') | PP Metals | Copper | 15.1 | mg/kg | -- | 73,000 |
| SBCY4-1-(2'-4') | PP Metals | Lead | 5.8 | mg/kg | -- | 900 |
| SBCY4-1-(2'-4') | PP Metals | Mercury | 0.025 B | mg/kg | 0.1 | 580 |
| SBCY4-1-(2'-4') | PP Metals | Nickel | 10.7 | mg/kg | -- | 150,000 |
| SBCY4-1-(2'-4') | PP Metals | Zinc | 23.8 | mg/kg | -- | 630,000 |
| | | | | | | |
| TMW1-(4'-6') | PP Metals | Antimony | 1.2 | mg/kg | 94 | 670 |
| TMW1-(4'-6') | PP Metals | Arsenic | 13.2 | mg/kg | 70 | 37 |
| TMW1-(4'-6') | PP Metals | Beryllium | 0.78 | mg/kg | -- | 1,600 |
| TMW1-(4'-6') | PP Metals | Cadmium | 1.9 | mg/kg | -- | 2,100 |
| TMW1-(4'-6') | PP Metals | Chromium | 31.9 | mg/kg | -- | 1,000,000 |
| TMW1-(4'-6') | PP Metals | Copper | 77.1 | mg/kg | -- | 73,000 |
| TMW1-(4'-6') | PP Metals | Lead | 118 | mg/kg | -- | 900 |
| TMW1-(4'-6') | PP Metals | Mercury | 0.096 | mg/kg | 0.1 | 580 |
| TMW1-(4'-6') | PP Metals | Nickel | 21.6 | mg/kg | -- | 150,000 |
| **TMW1-(4'-6')** | **PP Metals** | **Selenium** | **0.43 B** | **mg/kg** | **0.4** | 9,600 |
| TMW1-(4'-6') | PP Metals | Silver | 0.45 B | mg/kg | 0.5 | 9,000 |
| TMW1-(4'-6') | PP Metals | Zinc | 315 | mg/kg | -- | 630,000 |
| | | | | | | |
| TMW2-(3'-5') | PP Metals | Antimony | 1.2 | mg/kg | 94 | 670 |
| TMW2-(3'-5') | PP Metals | Arsenic | 8.6 | mg/kg | 70 | 37 |
| TMW2-(3'-5') | PP Metals | Beryllium | 0.11 | mg/kg | -- | 1,600 |
| TMW2-(3'-5') | PP Metals | Cadmium | 2.4 | mg/kg | -- | 2,100 |
| TMW2-(3'-5') | PP Metals | Chromium | 8.7 | mg/kg | -- | 1,000,000 |
| TMW2-(3'-5') | PP Metals | Copper | 205 | mg/kg | -- | 73,000 |
| TMW2-(3'-5') | PP Metals | Lead | 118 | mg/kg | -- | 900 |
| TMW2-(3'-5') | PP Metals | Mercury | 0.096 | mg/kg | 0.1 | 580 |
| TMW2-(3'-5') | PP Metals | Nickel | 9.4 | mg/kg | -- | 150,000 |
| **TMW2-(3'-5')** | **PP Metals** | **Selenium** | **0.43 B** | **mg/kg** | **0.4** | 9,600 |
| TMW2-(3'-5') | PP Metals | Silver | 0.12 B | mg/kg | 0.5 | 9,000 |
| TMW2-(3'-5') | PP Metals | Zinc | 315 | mg/kg | -- | 630,000 |
| | | | | | | |
| TMW3-(5'-7') | PP Metals | Antimony | 1.1 | mg/kg | 94 | 670 |
| TMW3-(5'-7') | PP Metals | Arsenic | 10.8 | mg/kg | 70 | 37 |
| TMW3-(5'-7') | PP Metals | Beryllium | 0.92 | mg/kg | -- | 1,600 |
| TMW3-(5'-7') | PP Metals | Cadmium | 0.68 | mg/kg | -- | 2,100 |
| TMW3-(5'-7') | PP Metals | Chromium | 14.6 | mg/kg | -- | 1,000,000 |
| TMW3-(5'-7') | PP Metals | Copper | 167 | mg/kg | -- | 73,000 |
| TMW3-(5'-7') | PP Metals | Lead | 218 | mg/kg | -- | 900 |
| **TMW3-(5'-7')** | **PP Metals** | **Mercury** | **0.24** | **mg/kg** | **0.1** | 580 |
| TMW3-(5'-7') | PP Metals | Nickel | 9.7 | mg/kg | -- | 150,000 |
| **TMW3-(5'-7')** | **PP Metals** | **Selenium** | **1.3** | **mg/kg** | **0.4** | 9,600 |
| TMW3-(5'-7') | PP Metals | Silver | 0.67 | mg/kg | 0.5 | 9,000 |
| TMW3-(5'-7') | PP Metals | Zinc | 356 | mg/kg | -- | 630,000 |
| | | | | | | |

Table 2 - PCBs in Soils

| | | METHOD | PARAMETER | RESULT | UNITS | MICHIGAN PART 201, INDUSTRIAL SOIL, DIRECT CONTACT |
|---|---|---|---|---|---|---|
| TMW1-(4'-6') | PCBs | SW846 8082 | Aroclor 1248 | 37 J | ug/kg | -- |
| TMW2-(3'-5') | PCBs | SW846 8082 | Aroclor 1248 | 37 J | ug/kg | -- |

Table 3 - VOCs in Soils

| | | METHOD | PARAMETER | RESULT | UNITS | MICHIGAN PART 201, GROUNDWATER SURFACEWATER INTERFACE | MICHIGAN PART 201, INDUSTRIAL SOIL, DIRECT CONTACT | NOTES |
|---|---|---|---|---|---|---|---|---|
| TMW1-(4'-6') | VOCs | SW846 8260B | Acetone | 220 J | ug/kg | 34,000 | 73,000,000 | |
| TMW1-(4'-6') | VOCs | SW846 8260B | Cyclohexane | 77 J | ug/kg | -- | -- | |
| TMW1-(4'-6') | VOCs | SW846 8260B | Isopropylbenzene | 8.0 J | ug/kg | -- | -- | * listed as Cumene |
| TMW1-(4'-6') | VOCs | SW846 8260B | 2-Methylnaphthalene | 18 J | ug/kg | ID | 26,000,000 | |
| TMW1-(4'-6') | VOCs | SW846 8260B | Naphthalene | 29 J | ug/kg | 870 | 52,000,000 | |
| TMW1-(4'-6') | VOCs | SW846 8260B | Tetrachloroethene | 480 | ug/kg | 900 | 88,000 | |
| TMW1-(4'-6') | VOCs | SW846 8260B | Toluene | 41 J | ug/kg | 2,800 | 250,000 | |
| TMW1-(4'-6') | VOCs | SW846 8260B | 1,2,3-Trimethylbenzene | 14 J | ug/kg | 570 | 110,000 | *using 1,2,4-trimethylbenzene levels |
| TMW1-(4'-6') | VOCs | SW846 8260B | m-Xylene & p-Xylene | 36 J | ug/kg | 700 | 150,000 | |
| TMW1-(4'-6') | VOCs | SW846 8260B | o-Xylene | 32 J | ug/kg | 700 | 150,000 | |
| | | | | | | | | |
| TMW2-(3'-5') | VOCs | SW846 8260B | Acetone | 220 J | ug/kg | 34,000 | 73,000,000 | |
| TMW2-(3'-5') | VOCs | SW846 8260B | Bromobenzene | 36 J | ug/kg | | | |
| TMW2-(3'-5') | VOCs | SW846 8260B | Bromochloromethane | 32 J | ug/kg | | | |
| TMW3-(5'-7') | VOCs | SW846 8260B | Acetone | 350 J | ug/kg | | | |
| | | | | | | | | |
| SBA8-1-(4'-5') | VOCs | SW846 8260B | Acetone | 270 J | ug/kg | 34,000 | 73,000,000 | |
| SBA8-1-(4'-5') | VOCs | SW846 8260B | Naphthalene | 180 J | ug/kg | 870 | 52,000,000 | |
| SBA8-1-(4'-5') | VOCs | SW846 8260B | Toluene | 31 J | ug/kg | 2,800 | 250,000 | |
| SBA8-1-(4'-5') | VOCs | SW846 8260B | m-Xylene & p-Xylene | 14 J | ug/kg | 700 | 150,000 | |
| SBA8-1-(4'-5') | VOCs | SW846 8260B | o-Xylene | 11 J | ug/kg | 700 | 150,000 | |
| | | | | | | | | |
| SBA12-1-(2'-4') | VOCs | SW846 8260B | Acetone | 420 J | ug/kg | 34,000 | 73,000,000 | |
| SBA12-1-(2'-4') | VOCs | SW846 8260B | 2-Methylnaphthalene | 29 J | ug/kg | ID | 26,000,000 | |
| SBA12-1-(2'-4') | VOCs | SW846 8260B | Naphthalene | 49 J | ug/kg | 870 | 52,000,000 | |
| SBA12-1-(2'-4') | VOCs | SW846 8260B | Toluene | 130 | ug/kg | 2,800 | 250,000 | |
| SBA12-1-(2'-4') | VOCs | SW846 8260B | 1,2,3-Trimethylbenzene | 6.7 J | ug/kg | 570 | 110,000 | *using 1,2,4-trimethylbenzene levels |
| SBA12-1-(2'-4') | VOCs | SW846 8260B | m-Xylene & p-Xylene | 25 J | ug/kg | 700 | 150,000 | |
| SBA12-1-(2'-4') | VOCs | SW846 8260B | o-Xylene | 14 J | ug/kg | 700 | 150,000 | |
| | | | | | | | | |
| SBCY3-1-(5'-7') | VOCs | SW846 8260B | Acetone | 250 J | ug/kg | 34,000 | 73,000,000 | |
| SBCY3-1-(5'-7') | VOCs | SW846 8260B | Toluene | 14 J | ug/kg | 2,800 | 250,000 | |
| | | | | | | | | |
| SBCY2-1-(3'-5') | VOCs | SW846 8260B | Acetone | 360 J | ug/kg | 34,000 | 73,000,000 | |
| SBCY2-1-(3'-5') | VOCs | SW846 8260B | Naphthalene | 59 J | ug/kg | 870 | 52,000,000 | |
| SBCY2-1-(3'-5') | VOCs | SW846 8260B | Toluene | 25 J | ug/kg | 2,800 | 250,000 | |
| | | | | | | | | |
| SBCY4-1-(2'-4') | VOCs | SW846 8260B | Acetone | 210 J | ug/kg | 34,000 | 73,000,000 | |
| | | | | | | | | |
| SBCY1-1-(4'-6') | VOCs | SW846 8260B | Acetone | 170 J | ug/kg | 34,000 | 73,000,000 | |
| | | | | | | | | |
| SBA6-1-(2'-4') | VOCs | SW846 8260B | Acetone | 440 J | ug/kg | 34,000 | 73,000,000 | |
| | | | | | | | | |
| SBA30-1-(2'-4') | VOCs | SW846 8260B | Acetone | 170 J | ug/kg | 34,000 | 73,000,000 | |
| | | | | | | | | |
| SOIL TRIP BLANK | VOCs | SW846 8260B | Acetone | 130 J | ug/kg | 34,000 | 73,000,000 | |

Table 4 - SVOCs in Soils

| | | METHOD | PARAMETER | RESULT | UNITS | MICHIGAN PART 201, GROUNDWATER SURFACEWATER INTERFACE | MICHIGAN PART 201, INDUSTRIAL SOIL, DIRECT CONTACT |
|---|---|---|---|---|---|---|---|
| SBA12-1-(2'-4') | SVOCs | SW846 8270C | Diethyl phthalate | 45 J | ug/kg | 2,200 | 740,000 |
| SBA12-1-(2'-4') | SVOCs | SW846 8270C | N-Nitrosodiphenylamine | 33 J | ug/kg | -- | 7,800,000 |
| SBA30-1-(2'-4') | SVOCs | SW846 8270C | 2-Methylnaphthalene | 9.0 J | ug/kg | -- | 26,000,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | 2-Methylnaphthalene | 540 J | ug/kg | -- | 26,000,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Acenaphthene | 730 J | ug/kg | 4,400 | 130,000,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Acenaphthylene | 280 J | ug/kg | -- | 5,200,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Anthracene | 1900 J | ug/kg | -- | 730,000,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Benzo(a)anthracene | 5,700 | ug/kg | -- | 80,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Benzo(a)pyrene | 5,100 | ug/kg | -- | 8,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Benzo(b)fluoranthene | 6,800 | ug/kg | -- | 80,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Benzo(ghi)perylene | 3,700 | ug/kg | -- | 7,000,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Benzo(k)fluoranthene | 2100 J | ug/kg | -- | 800,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Carbazole | 780 J | ug/kg | 1,100 | 2,400,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Chrysene | 5,700 | ug/kg | -- | 8,000,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Dibenz(a,h)anthracene | 950 J | ug/kg | -- | 8,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Dibenzofuran | 430 J | ug/kg | 1,700 | ID |
| **SBA6-1-(2'-4')** | **SVOCs** | **SW846 8270C** | **Fluoranthene** | **14,000** | **ug/kg** | **5,500** | 130,000,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Fluorene | 700 J | ug/kg | 5,300 | 87,000,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Indeno(1,2,3-cd)pyrene | 3000 J | ug/kg | -- | 80,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Naphthalene | 450 J | ug/kg | 870 | 52,000,000 |
| **SBA6-1-(2'-4')** | **SVOCs** | **SW846 8270C** | **Phenanthrene** | **8,000** | **ug/kg** | **5,300** | 5,200,000 |
| SBA6-1-(2'-4') | SVOCs | SW846 8270C | Pyrene | 11,000 | ug/kg | -- | 84,000,000 |
| | | | | | | | |
| SBA8-1-(4'-5') | SVOCs | SW846 8270C | 1,1'-Biphenyl | 38000 J | ug/kg | -- | -- |
| SBA8-1-(4'-5') | SVOCs | SW846 8270C | 2-Methylnaphthalene | 190000 J | ug/kg | -- | 26,000,000 |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Acenaphthene** | **280000 J** | **ug/kg** | **4,400** | 130,000,000 |
| SBA8-1-(4'-5') | SVOCs | SW846 8270C | Anthracene | 440,000 | ug/kg | -- | 730,000,000 |
| SBA8-1-(4'-5') | SVOCs | SW846 8270C | Benzo(a)anthracene | 540,000 | ug/kg | -- | 80,000 |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Benzo(a)pyrene** | **430,000** | **ug/kg** | -- | **8,000** |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Benzo(b)fluoranthene** | **510,000** | **ug/kg** | -- | **80,000** |
| SBA8-1-(4'-5') | SVOCs | SW846 8270C | Benzo(ghi)perylene | 220000 J | ug/kg | -- | 7,000,000 |
| SBA8-1-(4'-5') | SVOCs | SW846 8270C | Benzo(k)fluoranthene | 170000 J | ug/kg | -- | 800,000 |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Carbazole** | **200000 J** | **ug/kg** | **1,100** | 2,400,000 |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Chrysene** | **450,000** | **ug/kg** | -- | 8,000,000 |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Dibenz(a,h)anthracene** | **68000 J** | **ug/kg** | -- | **8,000** |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Dibenzofuran** | **200000 J** | **ug/kg** | **1,700** | ID |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Fluoranthene** | **1,400,000** | **ug/kg** | **5,500** | 130,000,000 |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Fluorene** | **280000 J** | **ug/kg** | **5,300** | 87,000,000 |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Indeno(1,2,3-cd)pyrene** | **210000 J** | **ug/kg** | -- | **80,000** |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Naphthalene** | **840,000** | **ug/kg** | **870** | 52,000,000 |
| **SBA8-1-(4'-5')** | **SVOCs** | **SW846 8270C** | **Phenanthrene** | **1,500,000** | **ug/kg** | **5,300** | 5,200,000 |
| SBA8-1-(4'-5') | SVOCs | SW846 8270C | Pyrene | 990,000 | ug/kg | -- | 84,000,000 |
| | | | | | | | |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | 2-Methylnaphthalene | 180 J | ug/kg | -- | 26,000,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Acenaphthene | 230 J | ug/kg | 4,400 | 130,000,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Acenaphthylene | 100 J | ug/kg | -- | 5,200,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Anthracene | 670 J | ug/kg | -- | 730,000,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Benzo(a)anthracene | 2,300 | ug/kg | -- | 80,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Benzo(a)pyrene | 2,200 | ug/kg | -- | 8,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Benzo(b)fluoranthene | 3,200 | ug/kg | -- | 80,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Benzo(ghi)perylene | 1600 J | ug/kg | -- | 7,000,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Benzo(k)fluoranthene | 950 J | ug/kg | -- | 800,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Carbazole | 200 J | ug/kg | 1,100 | 2,400,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Chrysene | 2,400 | ug/kg | -- | 8,000,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Dibenz(a,h)anthracene | 410 J | ug/kg | -- | 8,000 |
| **SBCY2-1-(3'-5')** | **SVOCs** | **SW846 8270C** | **Fluoranthene** | **5,500** | **ug/kg** | **5,500** | 130,000,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Fluorene | 180 J | ug/kg | 5,300 | 87,000,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Indeno(1,2,3-cd)pyrene | 1300 J | ug/kg | -- | 80,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Naphthalene | 160 J | ug/kg | 870 | 52,000,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Phenanthrene | 1,900 | ug/kg | 5,300 | 5,200,000 |
| SBCY2-1-(3'-5') | SVOCs | SW846 8270C | Pyrene | 4,200 | ug/kg | -- | 84,000,000 |
| | | | | | | | |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Acenaphthene | 1400 J | ug/kg | 4,400 | 130,000,000 |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Anthracene | 4300 J | ug/kg | -- | 730,000,000 |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Benzo(a)anthracene | 17,000 | ug/kg | -- | 80,000 |
| **SBCY3-1-(5'-7')** | **SVOCs** | **SW846 8270C** | **Benzo(a)pyrene** | **17,000** | **ug/kg** | -- | **8,000** |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Benzo(b)fluoranthene | 21,000 | ug/kg | -- | 80,000 |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Benzo(ghi)perylene | 12000 J | ug/kg | -- | 7,000,000 |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Benzo(k)fluoranthene | 6800 J | ug/kg | -- | 800,000 |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Chrysene | 16,000 | ug/kg | -- | 8,000,000 |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Dibenz(a,h)anthracene | 2900 J | ug/kg | -- | 8,000 |
| **SBCY3-1-(5'-7')** | **SVOCs** | **SW846 8270C** | **Fluoranthene** | **44,000** | **ug/kg** | **5,500** | 130,000,000 |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Fluorene | 850 J | ug/kg | 5,300 | 87,000,000 |
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Indeno(1,2,3-cd)pyrene | 9700 J | ug/kg | -- | 80,000 |
| **SBCY3-1-(5'-7')** | **SVOCs** | **SW846 8270C** | **Phenanthrene** | **16,000** | **ug/kg** | **5,300** | 5,200,000 |

Table 4 - SVOCs in Soils

| | | METHOD | PARAMETER | RESULT | UNITS | MICHIGAN PART 201, GROUNDWATER SURFACEWATER INTERFACE | MICHIGAN PART 201, INDUSTRIAL SOIL, DIRECT CONTACT |
|---|---|---|---|---|---|---|---|
| SBCY3-1-(5'-7') | SVOCs | SW846 8270C | Pyrene | 37,000 | ug/kg | -- | 84,000,000 |
| | | | | | | | |
| TMW1-(4'-6') | SVOCs | SW846 8270C | 2-Methylnaphthalene | 510 J | ug/kg | -- | 26,000,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Acenaphthene | 99 J | ug/kg | 4,400 | 130,000,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Acenaphthylene | 220 J | ug/kg | -- | 5,200,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Anthracene | 320 J | ug/kg | -- | 730,000,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Benzo(a)anthracene | 1,200 | ug/kg | -- | 80,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Benzo(a)pyrene | 1,300 | ug/kg | -- | 8,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Benzo(b)fluoranthene | 1,800 | ug/kg | -- | 80,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Benzo(ghi)perylene | 850 | ug/kg | -- | 7,000,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Benzo(k)fluoranthene | 620 J | ug/kg | -- | 800,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Carbazole | 140 J | ug/kg | 1,100 | 2,400,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Chrysene | 1,400 | ug/kg | -- | 8,000,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Dibenz(a,h)anthracene | 220 J | ug/kg | -- | 8,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Dibenzofuran | 170 J | ug/kg | 1,700 | ID |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Fluoranthene | 2,800 | ug/kg | 5,500 | 130,000,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Indeno(1,2,3-cd)pyrene | 710 J | ug/kg | -- | 80,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Naphthalene | 300 J | ug/kg | 870 | 52,000,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Phenanthrene | 1,500 | ug/kg | 5,300 | 5,200,000 |
| TMW1-(4'-6') | SVOCs | SW846 8270C | Pyrene | 2,300 | ug/kg | -- | 84,000,000 |
| | | | | | | | |
| TMW2-(3'-5') | SVOCs | SW846 8270C | 2-Methylnaphthalene | 540 J | ug/kg | -- | 26,000,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Acenaphthene | 840 J | ug/kg | 4,400 | 130,000,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Anthracene | 2300 J | ug/kg | -- | 730,000,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Benzo(a)anthracene | 4,400 | ug/kg | -- | 80,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Benzo(a)pyrene | 2300 J | ug/kg | -- | 8,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Benzo(b)fluoranthene | 4,500 | ug/kg | -- | 80,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Benzo(ghi)perylene | 2400 J | ug/kg | -- | 7,000,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Benzo(k)fluoranthene | 1600 J | ug/kg | -- | 800,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Carbazole | 950 J | ug/kg | 1,100 | 2,400,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Chrysene | 4,400 | ug/kg | -- | 8,000,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Dibenz(a,h)anthracene | 670 J | ug/kg | -- | 8,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Dibenzofuran | 570 J | ug/kg | 1,700 | ID |
| **TMW2-(3'-5')** | **SVOCs** | **SW846 8270C** | **Fluoranthene** | **13,000** | **ug/kg** | **5,500** | 130,000,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Fluorene | 780 J | ug/kg | 5,300 | 87,000,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Indeno(1,2,3-cd)pyrene | 1900 J | ug/kg | -- | 80,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Naphthalene | 540 J | ug/kg | 870 | 52,000,000 |
| **TMW2-(3'-5')** | **SVOCs** | **SW846 8270C** | **Phenanthrene** | **9,500** | **ug/kg** | **5,300** | 5,200,000 |
| TMW2-(3'-5') | SVOCs | SW846 8270C | Pyrene | 9,200 | ug/kg | -- | 84,000,000 |
| | | | | | | | |
| TMW3-(5'-7') | SVOCs | SW846 8270C | 2-Methylnaphthalene | 250 J | ug/kg | -- | 26,000,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Acenaphthene | 33 J | ug/kg | 4,400 | 130,000,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Anthracene | 64 J | ug/kg | -- | 730,000,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Benzo(a)anthracene | 270 J | ug/kg | -- | 80,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Benzo(a)pyrene | 160 J | ug/kg | -- | 8,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Benzo(b)fluoranthene | 260 J | ug/kg | -- | 80,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Benzo(ghi)perylene | 170 J | ug/kg | -- | 7,000,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Benzo(k)fluoranthene | 250 J | ug/kg | -- | 800,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Carbazole | 26 J | ug/kg | 1,100 | 2,400,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Chrysene | 290 J | ug/kg | -- | 8,000,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Dibenz(a,h)anthracene | 15 J | ug/kg | -- | 8,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Dibenzofuran | 47 J | ug/kg | 1,700 | ID |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Fluoranthene | 690 | ug/kg | 5,500 | 130,000,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Indeno(1,2,3-cd)pyrene | 130 J | ug/kg | -- | 80,000 |
| TMW3-(5'-7') | SVOCs | SW846 8270C | Naphthalene | 170 J | ug/kg | 870 | 52,000,000 |

Table 5 - TPH in Soils

| | | PARAMETER | RESULT | UNITS | METHOD |
|---|---|---|---|---|---|
| SBA12-1-(2'-4') | TPH DRO | TPH (as Diesel) | 8.5 J | mg/kg | SW846 8015B |
| SBA12-1-(2'-4') | TPH GRO | TPH (as Gasoline) | 4500 J | ug/kg | SW846 8015B |
| | | | | | |
| **SBA30-1-(2'-4')** | **TPH DRO** | **TPH (as Diesel)** | **1000** | **mg/kg** | **SW846 8015B** |
| SBA30-1-(2'-4') | TPH GRO | TPH (as Gasoline) | -- | ug/kg | SW846 8015B |
| | | | | | |
| SBA6-1-(2'-4') | TPH DRO | TPH (as Diesel) | 470 | ug/kg | SW846 8015B |
| SBA6-1-(2'-4') | TPH GRO | TPH (as Gasoline) | 4600 J | ug/kg | SW846 8015B |
| | | | | | |
| **SBA8-1-(4'-5')** | **TPH DRO** | **TPH (as Diesel)** | **1000** | **mg/kg** | **SW846 8015B** |
| | | | | | |
| SBCY1-1-(4'-6') | TPH DRO | TPH (as Diesel) | 44 | mg/kg | SW846 8015B |
| | | | | | |
| **SBCY2-1-(3'-5')** | **TPH DRO** | **TPH (as Diesel)** | **540** | **mg/kg** | **SW846 8015B** |
| SBCY2-1-(3'-5') | TPH GRO | TPH (as Gasoline) | 2200 J | ug/kg | SW846 8015B |
| | | | | | |
| **SBCY3-1-(5'-7')** | **TPH DRO** | **TPH (as Diesel)** | **290** | **mg/kg** | **SW846 8015B** |
| | | | | | |
| SBCY4-1-(2'-4') | TPH DRO | TPH (as Diesel) | 3.5 J | mg/kg | SW846 8015B |
| | | | | | |
| **TMW1-(4'-6')** | **TPH DRO** | **TPH (as Diesel)** | **210** | **mg/kg** | **SW846 8015B** |
| | | | | | |
| **TMW2-(3'-5')** | **TPH DRO** | **TPH (as Diesel)** | **270** | **mg/kg** | **SW846 8015B** |
| | | | | | |
| **TMW3-(5'-7')** | **TPH DRO** | **TPH (as Diesel)** | **150** | **mg/kg** | **SW846 8015B** |

Table 6 - Groundwater Samples

| | | METHOD | PARAMETER | RESULT | UNITS | MICHIGAN PART 201, INDUSTRIAL DRINKING WATER | MICHIGAN PART 201, GROUNDWATER SURFACEWATER INTERFACE | MICHIGAN PART 201, GROUNDWATER DIRECT CONTACT |
|---|---|---|---|---|---|---|---|---|
| ***H2O TRIP BLANK*** | VOCs | SW846 8260B | Acetone | 2.3 J | ug/L | 2,100 | 1,700 | 31,000,000 |
| ***TMW1*** | PP Metals | SW846 6010B | Arsenic | 15.5 | ug/L | 50 | 150 | 4,300 |
| ***TMW1*** | PP Metals | SW846 6010B | Chromium | 8.6 | ug/L | 100 | -- | 290,000,000 |
| ***TMW1*** | PP Metals | SW846 6010B | Copper | 10.0 B | ug/L | 1000 | -- | 7,400,000 |
| ***TMW1*** | **PP Metals** | **SW846 6010B** | **Lead** | **12.2** | **ug/L** | **4.0** | -- | -- |
| ***TMW1*** | PP Metals | SW846 6010B | Nickel | 10.1 B | ug/L | 100 | -- | 74,000,000 |
| ***TMW1*** | PP Metals | SW846 6010B | Zinc | 43.4 | ug/L | 5,000 | -- | 110,000,000 |
| ***TMW1*** | SVOCs | SW846 8270C | Caprolactam | 2.4 J | ug/L | 17,000 | -- | 390,000,000 |
| ***TMW1*** | SVOCs | SW846 8270C | Di-n-butyl phthalate | 1.2 J | ug/L | 2,500 | 9.7 | 11,000 |
| ***TMW1*** | SVOCs | SW846 8270C | Fluoranthene | 0.36 J | ug/L | 210 | 5.0 | 210 |
| ***TMW1*** | SVOCs | SW846 8270C | Phenanthrene | 0.25 J | ug/L | 150 | 5.0 | 1,000 |
| ***TMW1*** | SVOCs | SW846 8270C | Pyrene | 0.29 J | ug/L | 140 | -- | 140 |
| ***TMW1*** | TPH DRO | SW846 8015B | TPH (as Diesel) | 450.0 | ug/L | -- | -- | -- |
| ***TMW1*** | VOCs | SW846 8260B | Acetone | 2.4 J | ug/L | 2,100 | 1,700 | 31,000,000 |
| | | | | | | | | |
| ***TMW2*** | PP Metals | SW846 6010B | Arsenic | 6.7 B | ug/L | 50 | 150 | 4,300 |
| ***TMW2*** | PP Metals | SW846 6010B | Chromium | 3.4 B | ug/L | 100 | -- | 290,000,000 |
| ***TMW2*** | PP Metals | SW846 6010B | Copper | 18.1 B | ug/L | 1000 | -- | 7,400,000 |
| ***TMW2*** | **PP Metals** | **SW846 6010B** | **Lead** | **6.0** | **ug/L** | **4.0** | -- | -- |
| ***TMW2*** | PP Metals | SW846 6010B | Nickel | 30.9 | ug/L | 100 | -- | 74,000,000 |
| ***TMW2*** | PP Metals | SW846 6010B | Selenium | 4.5 B | ug/L | 50 | 5.0 | 970,000 |
| ***TMW2*** | PP Metals | SW846 6010B | Zinc | 30.1 | ug/L | 5,000 | -- | 110,000,000 |
| ***TMW2*** | SVOCs | SW846 8270C | Anthracene | 0.36 J | ug/L | 43 | -- | 43 |
| ***TMW2*** | SVOCs | SW846 8270C | Di-n-butyl phthalate | 7.1 | ug/L | 2,500 | 9.7 | 11,000 |
| ***TMW2*** | TPH DRO | SW846 8015B | TPH (as Diesel) | 720.0 | ug/L | -- | -- | -- |
| ***TMW2*** | VOCs | SW846 8260B | Acetone | 2.7 J | ug/L | 2,100 | 1,700 | 31,000,000 |
| | | | | | | | | |
| ***TMW3*** | PP Metals | SW846 6010B | Antimony | 3.7 B | ug/L | 6.0 | 130 | 68,000 |
| ***TMW3*** | PP Metals | SW846 6010B | Arsenic | 18.7 | ug/L | 50 | 150 | 4,300 |
| ***TMW3*** | PP Metals | SW846 6010B | Beryllium | 1.1 | ug/L | 4.0 | -- | 290,000 |
| ***TMW3*** | PP Metals | SW846 6010B | Cadmium | 1.5 B | ug/L | 5.0 | -- | 190,000 |
| ***TMW3*** | PP Metals | SW846 6010B | Chromium | 81.3 | ug/L | 100 | -- | 290,000,000 |
| ***TMW3*** | PP Metals | SW846 6010B | Copper | 29.4 | ug/L | 1000 | -- | 7,400,000 |
| ***TMW3*** | **PP Metals** | **SW846 6010B** | **Lead** | **106.0** | **ug/L** | **4.0** | -- | -- |
| ***TMW3*** | PP Metals | SW846 6010B | Nickel | 442.0 | ug/L | 100 | -- | 74,000,000 |
| ***TMW3*** | **PP Metals** | **SW846 6010B** | **Selenium** | **6.0** | **ug/L** | 50 | **5.0** | 970,000 |
| ***TMW3*** | **PP Metals** | **SW846 6010B** | **Thallium** | **6.2 B** | **ug/L** | **2.0** | **3.7** | 13,000 |
| ***TMW3*** | PP Metals | SW846 6010B | Zinc | 181.0 | ug/L | 5,000 | -- | 110,000,000 |

B - Estimated Result. Result is less than Reporting Limit.

J - Estimated Result. Result is less than Reporting Limit.

Table 6 - Groundwater Samples

| | | METHOD | PARAMETER | RESULT | UNITS | MICHIGAN PART 201, INDUSTRIAL DRINKING WATER | MICHIGAN PART 201, GROUNDWATER SURFACEWATER INTERFACE | MICHIGAN PART 201, GROUNDWATER DIRECT CONTACT |
|---|---|---|---|---|---|---|---|---|
| ***TMW3*** | SVOCs | SW846 8270C | 2,4-Dimethylphenol | 6.5 J | ug/L | 1,000 | 380 | 520,000 |
| ***TMW3*** | TPH DRO | SW846 8015B | TPH (as Diesel) | 3,400.0 | ug/L | -- | -- | -- |
| ***TMW3*** | VOCs | SW846 8260B | Methyl acetate | 7.4 J | ug/L | -- | -- | -- |
| ***TMW3*** | VOCs | SW846 8260B | Methyl tert-butyl ether | 5.6 J | ug/L | 40 | 730 | 610,000 |
| ***TMW3*** | **VOCs** | **SW846 8260B** | **Methylene chloride** | **16 J** | **ug/L** | **5.0** | 940 | 220,000 |
| ***TMW3*** | **VOCs** | **SW846 8260B** | **Tetrachloroethene** | **8.7 J** | **ug/L** | **5.0** | 45 | 12,000 |
| | | | | | | | | |
| ***TMW4*** | PP Metals | SW846 6010B | Arsenic | 14.5 | ug/L | 50 | 150 | 4,300 |
| ***TMW4*** | PP Metals | SW846 6010B | Chromium | 9.2 | ug/L | 100 | -- | 290,000,000 |
| ***TMW4*** | PP Metals | SW846 6010B | Copper | 11.3 B | ug/L | 1000 | -- | 7,400,000 |
| ***TMW4*** | **PP Metals** | **SW846 6010B** | **Lead** | **13.5** | **ug/L** | **4.0** | -- | -- |
| ***TMW4*** | PP Metals | SW846 6010B | Nickel | 10.2 B | ug/L | 100 | -- | 74,000,000 |
| ***TMW4*** | PP Metals | SW846 6010B | Zinc | 46.5 | ug/L | 5,000 | -- | 110,000,000 |
| ***TMW4*** | TPH DRO | SW846 8015B | TPH (as Diesel) | 170.0 | ug/L | -- | -- | -- |
| ***TMW4*** | VOCs | SW846 8260B | Acetone | 1.6 J | ug/L | 2,100 | 1,700 | 31,000,000 |

B - Estimated Result. Result is less than Reporting Limit.

J - Estimated Result. Result is less than Reporting Limit.

# SECTION 5

# CONCLUSIONS

Environmental Quality Management, Inc. (EQ) was contracted by the United States Environmental Protection Agency Region V Emergency Response Branch (USEPA Region V ERB) to conduct an Environmental Site Assessment (ESA) for the Chemserve site (Site) located at 9505 Copeland Street, Detroit, Michigan. In October 2007, START began to document the Site's condition and evaluate potential threats to human health, welfare, and the environment posed by conditions present at the Site. Several thousand containers (drums, totes, tanks, bags, cylinders, poly containers, small containers, laboratory containers) were present at the Site in various stages of decay. START also noted that several locations throughout the Site held containers which were leaking or had ruptured and spilled. The USEPA ERB has conducted removal activities of thousands of drums and other bulk containers from the Site since early 2008.

Based on the historical review, site reconnaissance and soil/groundwater analytical results summarized above and in Tables 1 to 6, the following conclusions can be drawn.

- The Site has been affected by historical and current uses of the subject property and at least one adjoining property. The southeastern adjoining property, Scotts Container Services (Former Wayne Chemical), became a US Brownfield in May 2006 and has listed several affected soil and groundwater projects completed to date including lead contamination cleanup, other metals contamination cleanup, PAH contamination cleanup, petroleum contamination cleanup, and VOC contamination cleanup.

- Soil samples show amounts of select Priority Pollutant Metals, SVOC PAH compounds, and TPH diesel range organics in most representative interior and exterior areas of the site.

- Groundwater samples from the Site show some impact from TPH, lead and select VOCs. Any public drinking water intakes (including private residential wells) could potentially be affected by compounds present at the Site.

# APPENDIX A

# EDR DATABASE SEARCH AND ENVIRONMENTAL LIEN

**ChemServe**
9505 Copland Street
Detroit, MI 48209

Inquiry Number: 2325154.2s
September 24, 2008

# The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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| Physical Setting Source Map Findings | A-8 |
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***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

9505 COPLAND STREET
DETROIT, MI 48209

### COORDINATES

| | |
|---|---|
| Latitude (North): | 42.288100 - 42˚ 17' 17.2'' |
| Longitude (West): | 83.129100 - 83˚ 7' 44.8'' |
| Universal Tranverse Mercator: | Zone 17 |
| UTM X (Meters): | 324461.8 |
| UTM Y (Meters): | 4683745.5 |
| Elevation: | 586 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 42083-C2 DEARBORN, MI |
| Most Recent Revision: | 1983 |
| East Map: | 42083-C1 DETROIT, MI |
| Most Recent Revision: | 1980 |

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 6 of the attached EDR Radius Map report:

| Site | Database(s) | EPA ID |
|---|---|---|
| OAKITE PRODUCTS, INC.<br>9505 COPLAND<br>DETROIT, MI 48209 | FINDS | 110011822670 |
| CHEMSERVE<br>9505 COPLAND ST<br>DETROIT, MI 48209 | FINDS | 110032953686 |
| CHEMSERVE<br>9505 COPLAND ST<br>DETROIT, MI 48209 | CERCLIS | MIN000510244 |
| CHEMSERVE CORP<br>9505 COPLAND<br>DETROIT, MI 48209 | FINDS | 110022299591 |
| CHEMSERVE<br>9505 COPLAND ST<br>DETROIT, MI 48209 | ICIS | N/A |

# EXECUTIVE SUMMARY

| | | |
|---|---|---|
| CHEMSERVE<br>9505 COPLAND ST<br>DETROIT, MI 48209 | ICIS | N/A |
| CHEM SERV CORP<br>9505 COPELAND<br>DETROIT, MI 48209 | SSTS<br>FTTS<br>HIST FTTS | N/A |
| CITY OF DETROIT FIRE DEPARTMENT<br>9505 COPLAND ST<br>DETROIT, MI 48209 | RCRA-NonGen | MIK196523674 |

**DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

**FEDERAL RECORDS**

| | |
|---|---|
| NPL | National Priority List |
| Proposed NPL | Proposed National Priority List Sites |
| Delisted NPL | National Priority List Deletions |
| NPL LIENS | Federal Superfund Liens |
| LIENS 2 | CERCLA Lien Information |
| RCRA-LQG | RCRA - Large Quantity Generators |
| RCRA-SQG | RCRA - Small Quantity Generators |
| RCRA-CESQG | RCRA - Conditionally Exempt Small Quantity Generator |
| US ENG CONTROLS | Engineering Controls Sites List |
| US INST CONTROL | Sites with Institutional Controls |
| ERNS | Emergency Response Notification System |
| HMIRS | Hazardous Materials Information Reporting System |
| DOT OPS | Incident and Accident Data |
| US CDL | Clandestine Drug Labs |
| DOD | Department of Defense Sites |
| FUDS | Formerly Used Defense Sites |
| LUCIS | Land Use Control Information System |
| CONSENT | Superfund (CERCLA) Consent Decrees |
| ROD | Records Of Decision |
| UMTRA | Uranium Mill Tailings Sites |
| ODI | Open Dump Inventory |
| DEBRIS REGION 9 | Torres Martinez Reservation Illegal Dump Site Locations |
| MINES | Mines Master Index File |
| TRIS | Toxic Chemical Release Inventory System |
| TSCA | Toxic Substances Control Act |
| PADS | PCB Activity Database System |
| MLTS | Material Licensing Tracking System |
| RADINFO | Radiation Information Database |

# EXECUTIVE SUMMARY

RAATS ..... RCRA Administrative Action Tracking System
SCRD DRYCLEANERS ..... State Coalition for Redediation of Drycleaners Listing

**STATE AND LOCAL RECORDS**

SWF/LF ..... Solid Waste Facilities Database
HIST LF ..... Inactive Solid Waste Facilities
LIENS ..... Lien List
AST ..... Aboveground Tanks
SPILLS ..... Pollution Emergency Alerting System
AUL ..... Engineering and Institutional Controls
DRYCLEANERS ..... Drycleaning Establishments
BROWNFIELDS ..... Brownfields and UST Site Database
CDL ..... Clandestine Drug Lab Listing
NPDES ..... List of Active NPDES Permits
AIRS ..... Permit and Emissions Inventory Data

**TRIBAL RECORDS**

INDIAN RESERV ..... Indian Reservations
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST ..... Underground Storage Tanks on Indian Land
INDIAN VCP ..... Voluntary Cleanup Priority Listing

**EDR PROPRIETARY RECORDS**

Manufactured Gas Plants ..... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations .. EDR Proprietary Historic Gas Stations
EDR Historical Cleaners ..... EDR Proprietary Historic Dry Cleaners

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**FEDERAL RECORDS**

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 07/09/2008 has revealed that there is 1

# EXECUTIVE SUMMARY

CERCLIS site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***WAYNE METAL WORKING DIV*** | ***9470 COPLAND*** | ***0 - 1/8 SSE*** | ***A10*** | ***19*** |

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/03/2007 has revealed that there are 4 CERC-NFRAP sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***DETROIT WASTE SOLUTIONS*** | ***9125 W JEFFERSON AVE*** | ***1/4 - 1/2 SE*** | ***C20*** | ***33*** |
| ***ST MARYS CEMENT COMPANY*** | ***9333 DEARBORN STREET*** | ***1/4 - 1/2 N*** | ***D21*** | ***39*** |

| Lower Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| PEERLESS CEMENT BRENNAN PLT | 9785 BRENNEN ST | 1/4 - 1/2 SSW | E23 | 52 |
| PEERLESS CEMENT FORMAN PLANT | 100 SOUTH FORMAN AVENUE | 1/4 - 1/2 WNW | 28 | 62 |

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 06/25/2008 has revealed that there are 4 CORRACTS sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***ST MARYS CEMENT COMPANY*** | ***9333 DEARBORN STREET*** | ***1/4 - 1/2 N*** | ***D21*** | ***39*** |
| ***ALLIED CHEMICAL CORPORATION DE*** | ***1200 ZUG ISLAND ROAD BO*** | ***1/2 - 1 ENE*** | ***34*** | ***69*** |
| ***GMC FISHER BODY DIV FLEETWOOD*** | ***WEST FORT WEST END AV*** | ***1/2 - 1 NNE*** | ***38*** | ***83*** |

| Lower Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***MICHIGAN MARINE TERMINAL*** | ***225 MARION STREET*** | ***1/2 - 1 SSE*** | ***37*** | ***80*** |

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 08/20/2008 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

# EXECUTIVE SUMMARY

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***ST MARYS CEMENT COMPANY*** | ***9333 DEARBORN STREET*** | ***1/4 - 1/2 N*** | ***D21*** | ***39*** |

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 08/20/2008 has revealed that there are 4 RCRA-NonGen sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***WAYNE METAL WORKING DIV*** | ***9470 COPLAND*** | ***0 - 1/8 SSE*** | ***A10*** | ***19*** |
| MI DEPT/ENVIRONMENTAL QUALITY | 9470 COPLAND ST | 0 - 1/8 SSE | A11 | 22 |

| Lower Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***WAYNE GREASE DIVISION OF DARLI*** | ***700 LEIGH*** | ***1/8 - 1/4 ENE*** | ***B14*** | ***25*** |
| SCOTT CONTAINER SERVICE INC | 700 LEIGH ST | 1/8 - 1/4 ENE | B15 | 27 |

US BROWNFIELDS: The EPA's listing of Brownfields properites addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 07/01/2008 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| FORMER WAYNE CHEMICAL BUILDING | 9470 COPELAND | 1/8 - 1/4 ENE | 16 | 29 |

**STATE AND LOCAL RECORDS**

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Quality's' Contaminated Sites List on Diskette With Address.

A review of the SHWS list, as provided by EDR, and dated 08/18/2008 has revealed that there are 6 SHWS sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| DETROIT RIVER PAPER | 9125 WEST JEFFERSON | 1/4 - 1/2 SE | C18 | 32 |
| Facility Status: Interim Response conducted | | | | |
| ***ALLIED CHEMICAL CORPORATION DE*** | ***1200 ZUG ISLAND ROAD BO*** | ***1/2 - 1 ENE*** | ***34*** | ***69*** |
| Facility Status: Inactive - no actions taken to address contamination | | | | |
| ***MICHIGAN SITE NETWORK*** | ***7731 MELVILLE*** | ***1/2 - 1 NE*** | ***36*** | ***79*** |
| Facility Status: Interim Response conducted - No further activities anticipated | | | | |

| Lower Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ACCU PARK | 789 DEACON | 1/2 - 1 SW | 32 | 68 |
| Facility Status: Inactive - no actions taken to address contamination | | | | |

# EXECUTIVE SUMMARY

| Lower Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| AMOCO RIVER ROUGE TERMINAL<br>Facility Status: Interim Response in progress | 205 MARION ST | 1/2 - 1 SSE | 33 | 69 |
| MICHIGAN MARINE TERMINAL<br>Facility Status: No status assigned | 250 MARION AVENUE | 1/2 - 1 SSE | 35 | 79 |

DEL SHWS: Sites that have been delisted or deleted from the List of Contaminated Sites.The available documentation for the site does support it's listing or the site no longer meets criteria specified in rules.

A review of the DEL SHWS list, as provided by EDR, and dated 08/20/2008 has revealed that there is 1 DEL SHWS site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| BLUE CIRCLE CEMENT CO. | 9333 DEARBORN STREET | 1/4 - 1/2 N | D22 | 52 |

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the LUST list, as provided by EDR, and dated 09/08/2008 has revealed that there are 7 LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***DETROIT WASTE SOLUTIONS***<br>Facility Status: Closed<br>Facility Status: Closed<br>**Additional key fields are available in the Map Findings section* | ***9125 W JEFFERSON AVE*** | ***1/4 - 1/2 SE*** | ***C20*** | ***33*** |
| ***ST MARYS CEMENT COMPANY***<br>Facility Status: Closed | ***9333 DEARBORN STREET*** | ***1/4 - 1/2 N*** | ***D21*** | ***39*** |
| ***CITY OF DETROIT WASTEWATER TRE***<br>Facility Status: Closed<br>Facility Status: Closed<br>**Additional key fields are available in the Map Findings section* | ***9300 W JEFFERSON AVE*** | ***1/4 - 1/2 SSE*** | ***25*** | ***54*** |

| Lower Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***DARLING & CO***<br>Facility Status: Closed<br>Facility Status: Closed | ***700 LEIGH ST*** | ***1/8 - 1/4 ENE*** | ***B12*** | ***23*** |
| ***MARBLEHEAD LIME CO-DETROIT PLA***<br>Facility Status: Closed | ***9785 BRENNAN AVE*** | ***1/4 - 1/2 SSW*** | ***E24*** | ***53*** |
| ***DETROIT MARINE TERMINALS***<br>Facility Status: Closed | ***9401 W JEFFERSON AVE*** | ***1/4 - 1/2 SSE*** | ***F26*** | ***60*** |
| MARINE POLLUTION CONTROL<br>Facility Status: Closed | 8631 W JEFFERSON AVE | 1/4 - 1/2 E | G29 | 63 |

# EXECUTIVE SUMMARY

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Michigan UST database.

A review of the UST list, as provided by EDR, and dated 06/09/2008 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| ***DARLING & CO*** | ***700 LEIGH ST*** | ***1/8 - 1/4 ENE*** | ***B12*** | ***23*** |
| AMOCO OIL STATION #5916 | DEARBORN & HERKIMER | 1/8 - 1/4 NNW | 17 | 30 |

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 09/11/2008 has revealed that there are 5 BEA sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| C & D HOLDINGS LLC | 9470 COPLAND AVENUE | 0 - 1/8 SSE | A9 | 18 |
| IPMC FACILITY (FORMER) | 9125 WEST JEFFERSON AVE | 1/4 - 1/2 SE | C19 | 32 |

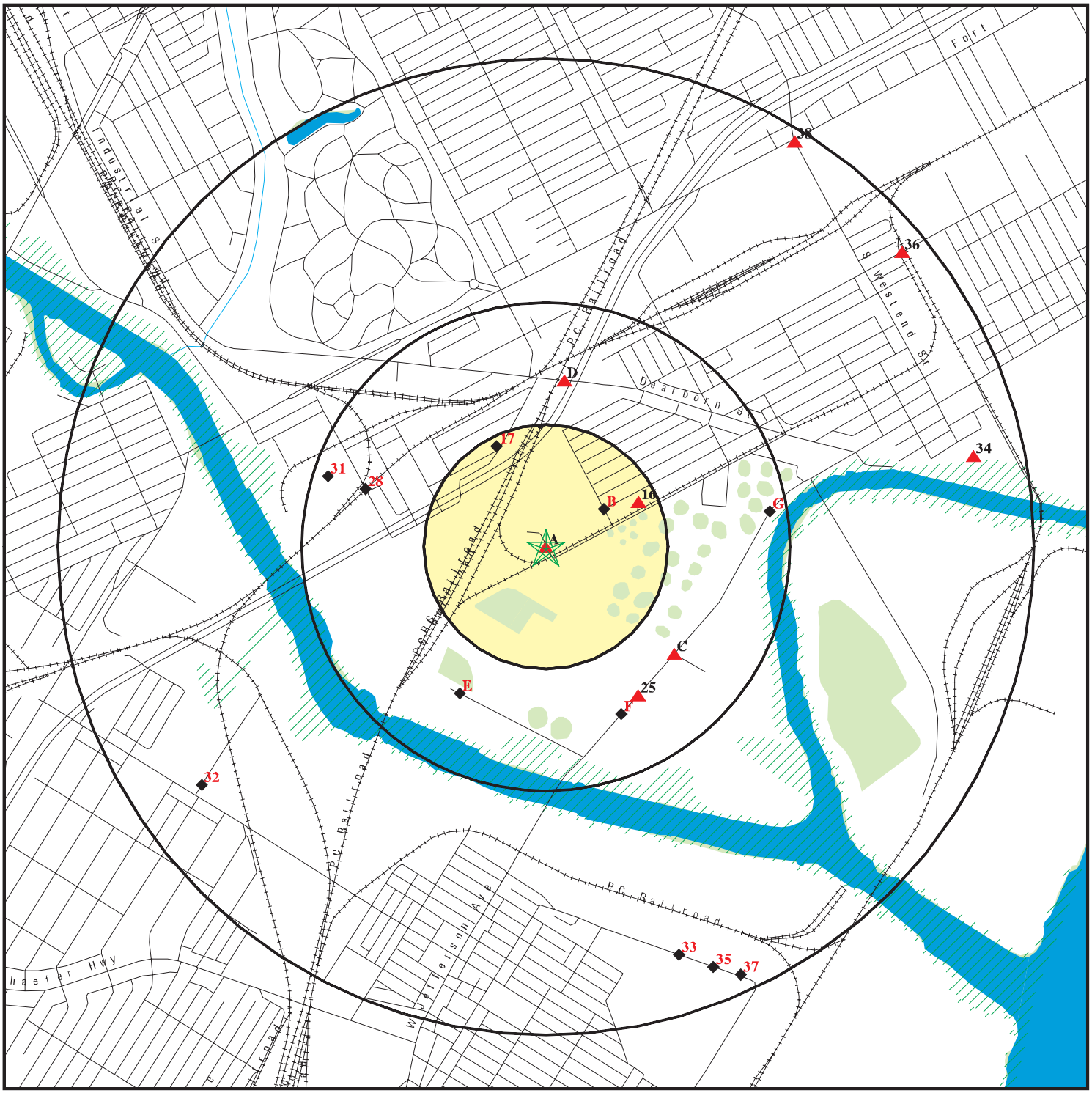
| Lower Elevation | Address | Dist / Dir | Map ID | Page |
|---|---|---|---|---|
| DARLING DELAWARE CO. (FORMER) | 700 LEIGH | 1/8 - 1/4 ENE | B13 | 25 |
| DETROIT CITY OF WATER & SEWERA | 9401 W. JEFFERSON AVENU | 1/4 - 1/2 SSE | F27 | 62 |
| HARRIDON TERMINAL | 123 CROWN STREET | 1/4 - 1/2 WNW | 31 | 68 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

| Site Name | Database(s) |
|---|---|
| ST. ANNE'S GATE PROPERTIES | SHWS, DEL SHWS |
| DETROIT PUBLIC SCHOOLS, CHATFIELD/BEARD | SHWS |
| MICH CON GAS CO STATION H | SHWS |
| AMBASSADOR BRIDGE CUSTOMS FAC | SHWS |
| CSX/NORFOLK & WESTERN RAILROAD SITE | SHWS |
| WORLD TRADE CENTER | SHWS |
| MARTIN LUTHER KING APARTMENTS | SHWS |
| FORMER LARO COAL PROPERTY | SHWS |
| SPARETIME FAMILY ENTERTAINMENT CENTER | SHWS |
| UNISYS WORLD HQ DETROIT | SHWS, DEL SHWS |
| BRUSH PARK MULTI-SITE DEMOLITION | SHWS |
| SEVEN MILE AND GRATIOT DEVELOPMENT | SHWS |
| MARATHON REFINERY WEATHERING PIT | SHWS, BROWNFIELDS, DEL SHWS |
| ZUG ISLAND GREAT LAKES STEEL | SHWS |
| VACANT LAND - PLEASANT AVENUE | SHWS |
| CROSLEY PLATING | CERCLIS, FINDS |
| MI DEPT/TRANSPORTATION | FINDS, RCRA-NonGen |
| MI DEPT/TRANSPORTATION | FINDS, RCRA-NonGen |
| MI DEPT/TRANSPORTATION | FINDS, RCRA-NonGen |
| MI DEPT/TRANSPORTATION | RCRA-CESQG |
| MI DEPT/TRANSPORTATION | FINDS, RCRA-CESQG |
| MI DEPT/TRANSPORTATION | FINDS, RCRA-CESQG |
| MI DEPT/TRANSPORTATION | FINDS, RCRA-CESQG |
| JOY & SCHAEFER VACANT PROPERTY | BEA |

# OVERVIEW MAP - 2325154.2s




- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: ChemServe<br>ADDRESS: 9505 Copland Street<br>Detroit MI 48209<br>LAT/LONG: 42.2881 / 83.1291 | CLIENT: Environmental Quality Mgmt.<br>CONTACT: John Miller<br>INQUIRY #: 2325154.2s<br>DATE: September 24, 2008 8:12 am |

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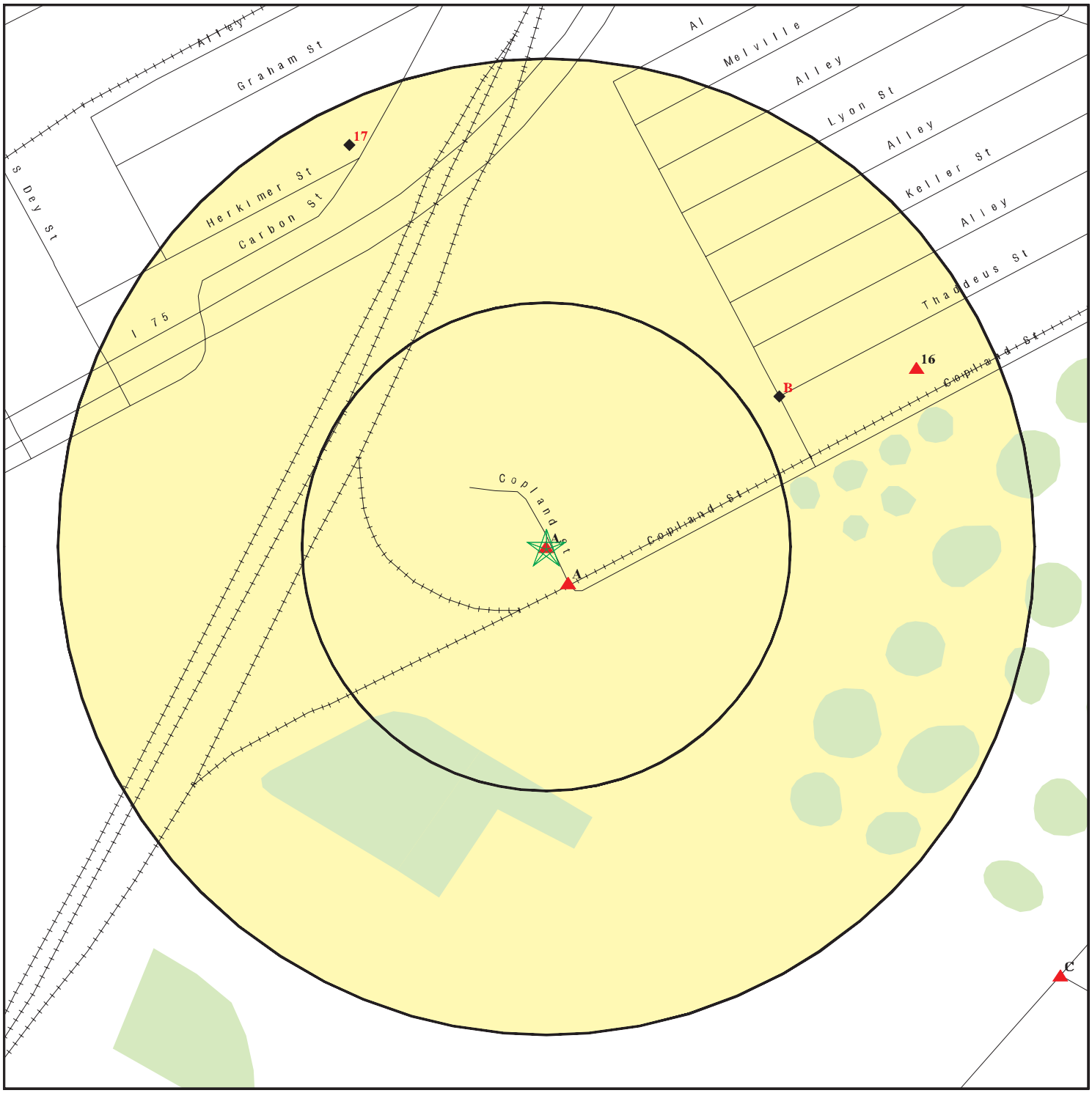
# DETAIL MAP - 2325154.2s




Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Oil & Gas pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: ChemServe<br>ADDRESS: 9505 Copland Street<br>Detroit MI 48209<br>LAT/LONG: 42.2881 / 83.1291 | CLIENT: Environmental Quality Mgmt.<br>CONTACT: John Miller<br>INQUIRY #: 2325154.2s<br>DATE: September 24, 2008 8:12 am |

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# MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **FEDERAL RECORDS** | | | | | | | | |
| NPL | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| Delisted NPL | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | | TP | NR | NR | NR | NR | NR | 0 |
| CERCLIS | X | 0.500 | 1 | 0 | 0 | NR | NR | 1 |
| CERC-NFRAP | | 0.500 | 0 | 0 | 4 | NR | NR | 4 |
| LIENS 2 | | TP | NR | NR | NR | NR | NR | 0 |
| CORRACTS | | 1.000 | 0 | 0 | 1 | 3 | NR | 4 |
| RCRA-TSDF | | 0.500 | 0 | 0 | 1 | NR | NR | 1 |
| RCRA-LQG | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| RCRA-CESQG | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| RCRA-NonGen | X | 0.250 | 2 | 2 | NR | NR | NR | 4 |
| US ENG CONTROLS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ERNS | | TP | NR | NR | NR | NR | NR | 0 |
| HMIRS | | TP | NR | NR | NR | NR | NR | 0 |
| DOT OPS | | TP | NR | NR | NR | NR | NR | 0 |
| US CDL | | TP | NR | NR | NR | NR | NR | 0 |
| US BROWNFIELDS | | 0.500 | 0 | 1 | 0 | NR | NR | 1 |
| DOD | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| FUDS | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| LUCIS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| CONSENT | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ROD | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ODI | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| MINES | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| TRIS | | TP | NR | NR | NR | NR | NR | 0 |
| TSCA | | TP | NR | NR | NR | NR | NR | 0 |
| FTTS | X | TP | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | X | TP | NR | NR | NR | NR | NR | 0 |
| SSTS | X | TP | NR | NR | NR | NR | NR | 0 |
| ICIS | X | TP | NR | NR | NR | NR | NR | 0 |
| PADS | | TP | NR | NR | NR | NR | NR | 0 |
| MLTS | | TP | NR | NR | NR | NR | NR | 0 |
| RADINFO | | TP | NR | NR | NR | NR | NR | 0 |
| FINDS | X | TP | NR | NR | NR | NR | NR | 0 |
| RAATS | | TP | NR | NR | NR | NR | NR | 0 |
| SCRD DRYCLEANERS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| **STATE AND LOCAL RECORDS** | | | | | | | | |
| SHWS | | 1.000 | 0 | 0 | 1 | 5 | NR | 6 |
| DEL SHWS | | 1.000 | 0 | 0 | 1 | 0 | NR | 1 |
| SWF/LF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| HIST LF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| LUST | | 0.500 | 0 | 1 | 6 | NR | NR | 7 |
| UST | | 0.250 | 0 | 2 | NR | NR | NR | 2 |
| LIENS | | TP | NR | NR | NR | NR | NR | 0 |
| AST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| SPILLS | | TP | NR | NR | NR | NR | NR | 0 |
| AUL | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| DRYCLEANERS | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| BROWNFIELDS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| CDL | | TP | NR | NR | NR | NR | NR | 0 |
| NPDES | | TP | NR | NR | NR | NR | NR | 0 |
| AIRS | | TP | NR | NR | NR | NR | NR | 0 |
| BEA | | 0.500 | 1 | 1 | 3 | NR | NR | 5 |
| **TRIBAL RECORDS** | | | | | | | | |
| INDIAN RESERV | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN ODI | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN LUST | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| INDIAN VCP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| **EDR PROPRIETARY RECORDS** | | | | | | | | |
| Manufactured Gas Plants | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Historical Auto Stations | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| EDR Historical Cleaners | | 0.250 | 0 | 0 | NR | NR | NR | 0 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1 Target Property** | **OAKITE PRODUCTS, INC.**
**9505 COPLAND**
**DETROIT, MI 48209** | **FINDS** | **1004532426**
**110011822670**

**Site 1 of 11 in cluster A**

**Actual: 586 ft.**

FINDS:
Other Pertinent Environmental Activity Identified at Site

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

---

**A2 Target Property** | **CHEMSERVE**
**9505 COPLAND ST**
**DETROIT, MI 48209** | **FINDS** | **1010430258**
**110032953686**

**Site 2 of 11 in cluster A**

**Actual: 586 ft.**

FINDS:
Other Pertinent Environmental Activity Identified at Site

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

---

**A3 Target Property** | **CHEMSERVE**
**9505 COPLAND ST**
**DETROIT, MI 48209** | **CERCLIS** | **1010417380**
**MIN000510244**

**Site 3 of 11 in cluster A**

**Actual: 586 ft.**

CERCLIS:

| | |
|---|---|
| Site ID: | 0510244 |
| Federal Facility: | Not a Federal Facility |
| NPL Status: | Not on the NPL |
| Non NPL Status: | Removal Only Site (No Site Assessment Work Needed) |

CERCLIS Site Contact Name(s):

| | |
|---|---|
| Contact Name: | BRIAN KELLY |
| Contact Tel: | (734) 692-7684 |
| Contact Title: | On-Scene Coordinator (OSC) |

Site Description: ChemServe is a dye and soap manufacturer. A survey of the property found numerous drums and containers of waste. The owner claims to store speculative chemicals. The facility has been issued several letters of violations, but has failed to comply.

CERCLIS Assessment History:

| | |
|---|---|
| Action: | ISSUE REQUEST LETTERS (104E) |
| Date Started: | Not reported |

**CHEMSERVE (Continued)** **1010417380**

| | |
|---|---|
| Date Completed: | 02/01/2008 |
| Priority Level: | Not reported |
| | |
| Action: | UNILATERAL ADMIN ORDER |
| Date Started: | Not reported |
| Date Completed: | 03/27/2008 |
| Priority Level: | Not reported |
| | |
| Action: | REMOVAL |
| Date Started: | 04/21/2008 |
| Date Completed: | Not reported |
| Priority Level: | Cleaned up |

---

**A4 Target Property** | **CHEMSERVE CORP** | **FINDS** | **1008218066**
**9505 COPLAND** | **110022299591**
**DETROIT, MI 48209**

**Site 4 of 11 in cluster A**

**Actual: 586 ft.**

FINDS:
Other Pertinent Environmental Activity Identified at Site

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

---

**A5 Target Property** | **CHEMSERVE** | **ICIS** | **1011513119**
**9505 COPLAND ST** | **N/A**
**DETROIT, MI 48209**

**Site 5 of 11 in cluster A**

**Actual: 586 ft.**

ICIS:

| | |
|---|---|
| Enforcement Action ID: | 05-2008-0911 |
| FRS ID: | 110032953686 |
| Program ID: | FRS 110032953686 |
| Action Name: | CHEMSERVE |

**CHEMSERVE (Continued)** **1011513119**

| | |
|---|---|
| Facility Name: | CHEMSERVE |
| Facility Address: | 9505 COPLAND ST<br>DETROIT, Michigan 482092642 |
| Enforcement Action Type: | CERCLA 106 AO For Resp Action/Imm Haz |
| Facility County: | WAYNE |
| EPA Region #: | 5 |
| Program ID: | CERCLIS MIN000510244 |
| Facility Name: | CHEMSERVE |
| Address: | 9505 COPLAND ST DETROIT MI 482092642 |
| Tribal Indicator: | Not reported |
| Fed Facility: | Not reported |
| NAIC Code: | Not reported |
| SIC Code: | Not reported |
| Program ID: | FRS 110032953686 |
| Facility Name: | CHEMSERVE |
| Address: | 9505 COPLAND ST DETROIT MI 482092642 |
| Tribal Indicator: | Not reported |
| Fed Facility: | Not reported |
| NAIC Code: | Not reported |
| SIC Code: | Not reported |

---

**A6 Target Property** — **CHEMSERVE**, **9505 COPLAND ST**, **DETROIT, MI 48209** — **ICIS** **1011546132** **N/A**

**Site 6 of 11 in cluster A**

**Actual: 586 ft.**

ICIS:

| | |
|---|---|
| Enforcement Action ID: | 05-2008-0911 |
| FRS ID: | 110032953686 |
| Program ID: | CERCLIS MIN000510244 |
| Action Name: | CHEMSERVE |
| Facility Name: | Not reported |
| Facility Address: | 9505 COPLAND ST<br>DETROIT, Michigan 482092642 |
| Enforcement Action Type: | CERCLA 106 AO For Resp Action/Imm Haz |
| Facility County: | Not reported |
| EPA Region #: | 5 |
| Program ID: | CERCLIS MIN000510244 |
| Facility Name: | CHEMSERVE |
| Address: | 9505 COPLAND ST DETROIT MI 482092642 |
| Tribal Indicator: | Not reported |
| Fed Facility: | Not reported |
| NAIC Code: | Not reported |
| SIC Code: | Not reported |
| Program ID: | FRS 110032953686 |
| Facility Name: | CHEMSERVE |
| Address: | 9505 COPLAND ST DETROIT MI 482092642 |
| Tribal Indicator: | Not reported |
| Fed Facility: | Not reported |
| NAIC Code: | Not reported |
| SIC Code: | Not reported |

**A7 Target Property** | **CHEM SERV CORP**
**9505 COPELAND**
**DETROIT, MI 48209** | **SSTS** **1004530752**
**FTTS** **N/A**
**HIST FTTS**

**Site 7 of 11 in cluster A**

**Actual: 586 ft.**

SSTS:

| | |
|---|---|
| Product: | OAKITE CHLORTERGENT |
| Status: | Active |
| Registration Number: | 065352MI 001 |
| Report Year: | Not reported |
| Permit: | Registered |
| Product Number: | 00102000004 |
| Product Type: | Repackaged or relabeled |
| Product Class: | Disinfectant, germicide, sanitizer |
| Product Use: | All other products |
| UOM: | Not reported |
| Market: | Marketed in the United States |
| Region: | Not reported |

| | |
|---|---|
| Product: | OAKITE 80 |
| Status: | Active |
| Registration Number: | 065352MI 001 |
| Report Year: | Not reported |
| Permit: | Registered |
| Product Number: | 04830100014001020 |
| Product Type: | Repackaged or relabeled |
| Product Class: | Disinfectant, germicide, sanitizer |
| Product Use: | All other products |
| UOM: | Not reported |
| Market: | Marketed in the United States |
| Region: | Not reported |

| | |
|---|---|
| Product: | OAKITE SANITIZER #1 |
| Status: | Active |
| Registration Number: | 065352MI 001 |
| Report Year: | Not reported |
| Permit: | Registered |
| Product Number: | 00102000001 |
| Product Type: | Repackaged or relabeled |
| Product Class: | Disinfectant, germicide, sanitizer |
| Product Use: | All other products |
| UOM: | Not reported |
| Market: | Marketed in the United States |
| Region: | Not reported |

| | |
|---|---|
| Product: | OAKITE CHLOR TERGENT |
| Status: | Active |
| Registration Number: | 065352MI 001 |
| Report Year: | 1991 |
| Permit: | Registered |
| Product Number: | 00102000004 |
| Product Type: | End-use blend, formulation, or concentrate |
| Product Class: | Disinfectant, germicide, sanitizer |
| Product Use: | All other products |
| UOM: | Not reported |
| Market: | Marketed in the United States |
| Region: | Not reported |

**CHEM SERV CORP (Continued)** **1004530752**

Product: OAKITE SANITIZER 1
Status: Active
Registration Number: 065352MI 001
Report Year: 1991
Permit: Registered
Product Number: 00102000001
Product Type: End-use blend, formulation, or concentrate
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE CHLOR TERGENT
Status: Active
Registration Number: 065352MI 001
Report Year: 1992
Permit: Registered
Product Number: 00102000004
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE 80
Status: Active
Registration Number: 065352MI 001
Report Year: 1992
Permit: Registered
Product Number: 00102000022
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE LIQUID BACTERICIDE
Status: Active
Registration Number: 065352MI 001
Report Year: 1992
Permit: Registered
Product Number: 00174400021
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE SANITIZER 1
Status: Active
Registration Number: 065352MI 001
Report Year: 1992
Permit: Registered

**CHEM SERV CORP (Continued)** **1004530752**

Product Number: 00102000001
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE 80
Status: Active
Registration Number: 065352MI 001
Report Year: 1996
Permit: Registered
Product Number: 04830100014
Product Type: End-use blend, formulation, or concentrate
Product Class: Not reported
Product Use: Not reported
UOM: P
Market: Marketed in the United States
Region: Not reported

Product: OAKITE CHLORTERGENT
Status: Active
Registration Number: 065352MI 001
Report Year: 1996
Permit: Registered
Product Number: 00102000004
Product Type: End-use blend, formulation, or concentrate
Product Class: Not reported
Product Use: Not reported
UOM: P
Market: Marketed in the United States
Region: Not reported

Product: OAKITE SANITIZER #1
Status: Active
Registration Number: 065352MI 001
Report Year: 1996
Permit: Registered
Product Number: 00102000001
Product Type: End-use blend, formulation, or concentrate
Product Class: Not reported
Product Use: Not reported
UOM: P
Market: Marketed in the United States
Region: Not reported

Product: OAKITE 80
Status: Active
Registration Number: 065352MI 001
Report Year: 1997
Permit: Registered
Product Number: 04830100014001020
Product Type: End-use blend, formulation, or concentrate
Product Class: Not reported
Product Use: Not reported
UOM: P

**CHEM SERV CORP (Continued)** **1004530752**

Market: Marketed in the United States
Region: Not reported

Product: OAKITE CHLORTERGENT
Status: Active
Registration Number: 065352MI 001
Report Year: 1997
Permit: Registered
Product Number: 00102000004
Product Type: End-use blend, formulation, or concentrate
Product Class: Not reported
Product Use: Not reported
UOM: P
Market: Marketed in the United States
Region: Not reported

Product: OAKITE SANITIZER #1
Status: Active
Registration Number: 065352MI 001
Report Year: 1997
Permit: Registered
Product Number: 00102000001
Product Type: End-use blend, formulation, or concentrate
Product Class: Not reported
Product Use: Not reported
UOM: P
Market: Marketed in the United States
Region: Not reported

Product: OAKITE 80
Status: Not reported
Registration Number: 065352MI 001
Report Year: 1999
Permit: Registered
Product Number: 04830100014001020
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE CHLORTERGENT
Status: Not reported
Registration Number: 065352MI 001
Report Year: 1999
Permit: Registered
Product Number: 00102000004
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE SANITIZER #1
Status: Not reported

**CHEM SERV CORP (Continued)** **1004530752**

Registration Number: 065352MI 001
Report Year: 1999
Permit: Registered
Product Number: 00102000001
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE 80
Status: Not reported
Registration Number: 065352MI 001
Report Year: 2000
Permit: Registered
Product Number: 04830100014001020
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE CHLORTERGENT
Status: Not reported
Registration Number: 065352MI 001
Report Year: 2000
Permit: Registered
Product Number: 00102000004
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE SANITIZER
Status: Not reported
Registration Number: 065352MI 001
Report Year: 2000
Permit: Registered
Product Number: 00102000001
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKAITE SANI 1
Status: Not reported
Registration Number: 065352MI001
Report Year: 2002
Permit: Registered
Product Number: 00102000001
Product Type: Repackaged or relabeled

**CHEM SERV CORP (Continued)** **1004530752**

Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: 05

Product: OAKITE *80T
Status: Not reported
Registration Number: 065352MI001
Report Year: 2002
Permit: Registered
Product Number: 00036500076001020
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: 05

Product: OAKITE CHLOR
Status: Not reported
Registration Number: 065352MI001
Report Year: 2002
Permit: Registered
Product Number: 00102000004
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: 05

Product: OAKAITE SANI 1
Status: Not reported
Registration Number: 065352MI001
Report Year: 2003
Permit: Registered
Product Number: 00102000001
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: 05

Product: OAKITE 80
Status: Not reported
Registration Number: 065352MI001
Report Year: 2003
Permit: Registered
Product Number: 04830100014
Product Type: Repackaged or relabeled
Product Class: Herbicide
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: 05

**CHEM SERV CORP (Continued)** **1004530752**

Product: OAKITE CHLOR
Status: Not reported
Registration Number: 065352MI001
Report Year: 2003
Permit: Registered
Product Number: 00102000004
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: 05

Product: OAKAITE SANI 1
Status: Not reported
Registration Number: 065352MI001
Report Year: 2004
Permit: Not reported
Product Number: 100102000001
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE 80
Status: Not reported
Registration Number: 065352MI001
Report Year: 2004
Permit: Not reported
Product Number: 104830100014
Product Type: Repackaged or relabeled
Product Class: Herbicide
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE CHLOR
Status: Not reported
Registration Number: 065352MI001
Report Year: 2004
Permit: Not reported
Product Number: 100102000004
Product Type: Repackaged or relabeled
Product Class: Disinfectant, germicide, sanitizer
Product Use: All other products
UOM: Not reported
Market: Marketed in the United States
Region: Not reported

Product: OAKITE
Status: Not reported
Registration Number: 065352-MI-001
Report Year: 2006
Permit: Not reported

**CHEM SERV CORP (Continued)** **1004530752**

Product Number: 048301-00014
Product Type: Not reported
Product Class: Not reported
Product Use: Not reported
UOM: Not reported
Market: Not reported
Region: Not reported

Product: OAKITE CHLORTERGENT
Status: Not reported
Registration Number: 065352-MI-001
Report Year: 2006
Permit: Not reported
Product Number: 001020-00004
Product Type: Not reported
Product Class: Not reported
Product Use: Not reported
UOM: Not reported
Market: Not reported
Region: Not reported

Product: OAKITE SANITIZER
Status: Not reported
Registration Number: 065352-MI-001
Report Year: 2006
Permit: Not reported
Product Number: 001020-00001
Product Type: Not reported
Product Class: Not reported
Product Use: Not reported
UOM: Not reported
Market: Not reported
Region: Not reported

FTTS:
Case Number: Not reported
Docket Number: 5-EPCRA-96-025
Complaint Issue Date: 06/26/1996
Abatement Amount: 0.0000
Proposed Penalty: 15000.0000
Final Assessment: 10313.0000
Final Order Date: 01/30/1997
Close Date: / /
Violations(s): EPCRA, Nonreporting/Failure to RPT to EPA

HIST FTTS:
Case Number: Not reported
Docket Number: 5-EPCRA-96-025
Complaint Issue Date: 06/26/1996
Abatement Amount: 0.0000
Proposed Penalty: 15000.0000
Final Assessment: 10313.0000
Final Order Date: 01/30/1997
Close Date: / /
Violations(s): EPCRA, Nonreporting/Failure to RPT to EPA

**A8 Target Property** | **CITY OF DETROIT FIRE DEPARTMENT**
**9505 COPLAND ST**
**DETROIT, MI 48209** | **RCRA-NonGen** | **1010784736**
**MIK196523674**

**Site 8 of 11 in cluster A**

**Actual: 586 ft.**

RCRA-NonGen:

| | |
|---|---|
| Date form received by agency: | 10/02/2007 |
| Facility name: | CITY OF DETROIT FIRE DEPARTMENT |
| Facility address: | 9505 COPLAND ST<br>DETROIT, MI 48209 |
| EPA ID: | MIK196523674 |
| Mailing address: | 250 W LARNED ST<br>DETROIT, MI 48226 |
| Contact: | OFFICER HILL |
| Contact address: | 9505 COPLAND ST<br>DETROIT, MI 48209 |
| Contact country: | Not reported |
| Contact telephone: | (313) 596-1603 |
| Contact email: | Not reported |
| EPA Region: | 05 |
| Classification: | Non-Generator |
| Description: | Handler: Non-Generators do not presently generate hazardous waste |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | CITY OD DETROIT |
| Owner/operator address: | Not reported<br>Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Municipal |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 09/21/2007 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | CITY OD DETROIT |
| Owner/operator address: | Not reported<br>Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Municipal |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 09/21/2007 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |

**CITY OF DETROIT FIRE DEPARTMENT (Continued)** **1010784736**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Violation Status: No violations found

---

**A9** **C & D HOLDINGS LLC** **BEA** **S108414472**
**SSE** **9470 COPLAND AVENUE** **N/A**
**< 1/8** **DETROIT, MI 48209**
**0.022 mi.**
**114 ft.** **Site 9 of 11 in cluster A**

**Relative:**
**Equal**

**Actual:**
**586 ft.**

BEA:

Secondary Address: Not reported
BEA Number: 3454
District: Southeast MI
Date Received: 2/12/2007 12:59:00 AM
Submitter Name: C & D Holdings LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: thorntop
Division Assigned: Environmental Response Division

**A10 SSE < 1/8 0.022 mi. 114 ft.** | **WAYNE METAL WORKING DIV**
**9470 COPLAND**
**DETROIT, MI 48209** | **CERCLIS FINDS RCRA-NonGen** | **1000827724 MID005355839**

**Site 10 of 11 in cluster A**

**Relative: Equal**

**Actual: 586 ft.**

CERCLIS:

| | |
|---|---|
| Site ID: | 0507748 |
| Federal Facility: | Not a Federal Facility |
| NPL Status: | Not on the NPL |
| Non NPL Status: | Referred to Removal - NFRAP |

CERCLIS Site Contact Name(s):

| | |
|---|---|
| Contact Name: | ROBERT BUCKLEY |
| Contact Tel: | (734) 692-7662 |
| Contact Title: | On-Scene Coordinator (OSC) |

Site Description: No description available

CERCLIS Assessment History:

| | |
|---|---|
| Action: | DISCOVERY |
| Date Started: | Not reported |
| Date Completed: | 02/12/1998 |
| Priority Level: | Not reported |

| | |
|---|---|
| Action: | PRELIMINARY ASSESSMENT |
| Date Started: | Not reported |
| Date Completed: | 03/27/2000 |
| Priority Level: | NFRAP: No further Remedial Action planned |

FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

RCRA-NonGen:

| | |
|---|---|
| Date form received by agency: | 12/31/2001 |
| Facility name: | WAYNE METAL WORKING DIV |
| Facility address: | 9470 COPLAND<br>DETROIT, MI 48209 |
| EPA ID: | MID005355839 |
| Mailing address: | 26000 CAPITOL AVE<br>REDFORD, MI 48239 |
| Contact: | BILL MOORE |

**WAYNE METAL WORKING DIV (Continued)** **1000827724**

Contact address: 9470 COPLAND
DETROIT, MI 48209
Contact country: Not reported
Contact telephone: (313) 555-1212
Contact email: Not reported
EPA Region: 05
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:
Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No

**WAYNE METAL WORKING DIV (Continued)** **1000827724**

Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:
Date form received by agency: 12/29/1994
Facility name: WAYNE METAL WORKING DIV
Classification: Not a generator, verified

Date form received by agency: 07/24/1992
Facility name: WAYNE METAL WORKING DIV
Classification: Not a generator, verified

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 07/07/1992
Date achieved compliance: 08/02/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/07/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/16/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/02/1993
Evaluation lead agency: State

**A11 SSE < 1/8 0.022 mi. 114 ft.** | **MI DEPT/ENVIRONMENTAL QUALITY** | **RCRA-NonGen** | **1008403405**
**9470 COPLAND ST** | **MIK358557619**
**DETROIT, MI 48209**

**Site 11 of 11 in cluster A**

**Relative: Equal**

**Actual: 586 ft.**

RCRA-NonGen:

| | |
|---|---|
| Date form received by agency: | 07/11/2005 |
| Facility name: | MI DEPT/ENVIRONMENTAL QUALITY |
| Facility address: | 9470 COPLAND ST<br>DETROIT, MI 48209 |
| EPA ID: | MIK358557619 |
| Mailing address: | 3058 W GRAND BLVD<br>DETROIT, MI 48202 |
| Contact: | PATRICIA THORNTON |
| Contact address: | 9470 COPLAND ST<br>DETROIT, MI 48209 |
| Contact country: | Not reported |
| Contact telephone: | (313) 456-4669 |
| Contact email: | Not reported |
| EPA Region: | 05 |
| Classification: | Non-Generator |
| Description: | Handler: Non-Generators do not presently generate hazardous waste |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | MDEQ- REMEDIATION & REDEVELOPMENT DIV |
| Owner/operator address: | Not reported<br>Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | State |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 05/05/1998 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | MDEQ- REMEDIATION & REDEVELOPMENT DIV |
| Owner/operator address: | Not reported<br>Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | State |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 05/05/1998 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |

**MI DEPT/ENVIRONMENTAL QUALITY (Continued)** **1008403405**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 01/01/1980
Facility name: MI DEPT/ENVIRONMENTAL QUALITY
Classification: Not a generator, verified

Violation Status: No violations found

---

**B12** **DARLING & CO** **LUST** **U000268782**
**ENE** **700 LEIGH ST** **UST** **N/A**
**1/8-1/4** **DETROIT, MI 48122**
**0.142 mi.**
**750 ft.** **Site 1 of 4 in cluster B**

**Relative:**
**Lower**

**Actual:**
**585 ft.**

LUST:

Facility ID: 00032848
Source: STATE OF MICHIGAN
Owner Name: Darling & Co
Owner Address: 3350 Greenfield Rd
Owner City,St,Zip: Melvindale, MI 48122-1280
Owner Contact: Not reported
Owner Phone: (313) 928-7400
Country: USA
District: SE Michigan District Office
Site Name: Darling Delaware Co

**DARLING & CO (Continued)** **U000268782**

| | |
|---|---|
| Latitude: | 42.2890000000 |
| Longitude: | -83.1269880000 |
| Date of Collection: | 01-11-2001 |
| Method of Collection: | Address Matching-House Number |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Data: | NAD83 |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |

| | |
|---|---|
| Leak Number: | C-1124-91 |
| Release Date: | Jun 11 1991 |
| Substance Released: | Gasoline |
| Release Status: | Closed |
| Release Closed Date: | Oct 5 1995 |

| | |
|---|---|
| Leak Number: | C-1865-90 |
| Release Date: | Sep 25 1990 |
| Substance Released: | Not reported |
| Release Status: | Closed |
| Release Closed Date: | Oct 5 1995 |

UST:

| | |
|---|---|
| Facility ID: | 00032848 |
| Facility Type: | CLOSED |
| Latitude: | 42.2890000000 |
| Longitude: | -83.1269880000 |
| Owner Name: | Darling & Co |
| Owner Address: | 3350 Greenfield Rd |
| Owner City,St,Zip: | Melvindale, MI 48122-1280 |
| Owner Country: | USA |
| Owner Contact: | Not reported |
| Owner Phone: | (313) 928-7400 |
| Contact: | DONALD MUCHOW |
| Contact Phone: | (313) 928-7400 |
| Date of Collection: | 01-11-2001 |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Datum: | NAD83 |
| Source: | STATE OF MICHIGAN |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |
| Method of Collection: | Address Matching-House Number |

| | |
|---|---|
| Tank ID: | 1 |
| **Tank Status:** | **Closed in Ground** |
| Capacity: | 8000 |
| Install Date: | Not reported |
| Product: | Diesel |
| Remove Date: | Sep 25 1990 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Unknown |
| Piping Type: | Not reported |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

**DARLING & CO (Continued)** **U000268782**

| | |
|---|---|
| Tank ID: | 2 |
| **Tank Status:** | **Removed from Ground** |
| Capacity: | Not reported |
| Install Date: | Not reported |
| Product: | Gasoline |
| Remove Date: | Sep 25 1990 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Unknown |
| Piping Type: | Not reported |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

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**B13** **DARLING DELAWARE CO. (FORMER)** **BEA** **S105768215**
**ENE** **700 LEIGH** **N/A**
**1/8-1/4** **DETROIT, MI**
**0.142 mi.**
**750 ft.** **Site 2 of 4 in cluster B**

**Relative:**
**Lower**

**Actual:**
**585 ft.**

BEA:

| | |
|---|---|
| Secondary Address: | Not reported |
| BEA Number: | 1379 |
| District: | Southeast MI |
| Date Received: | 5/15/2001 12:59:00 AM |
| Submitter Name: | Scott Container |
| Petition Determination: | No Request |
| Petition Disclosure: | 0 |
| Category: | No Hazardous Substance(s) |
| Determination 20107A: | No Request |
| Reviewer: | cokt |
| Division Assigned: | Storage Tank Division |

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**B14** **WAYNE GREASE DIVISION OF DARLING & CO** **FINDS** **1000311251**
**ENE** **700 LEIGH** **RCRA-NonGen** **MID005356266**
**1/8-1/4** **DETROIT, MI 48209**
**0.142 mi.**
**750 ft.** **Site 3 of 4 in cluster B**

**Relative:**
**Lower**

**Actual:**
**585 ft.**

FINDS:
Other Pertinent Environmental Activity Identified at Site

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

RCRA-NonGen:
Date form received by agency: 10/01/2000

**WAYNE GREASE DIVISION OF DARLING & CO (Continued)** **1000311251**

| | |
|---|---|
| Facility name: | WAYNE BI PRODUCTS |
| Facility address: | 700 LEIGH RD<br>DETROIT, MI 48209 |
| EPA ID: | MID005356266 |
| Mailing address: | 3275 W 65TH ST<br>CLEVELAND, OH 44102 |
| Contact: | SUBBA RAO |
| Contact address: | 700 LEIGH RD<br>DETROIT, MI 48209 |
| Contact country: | Not reported |
| Contact telephone: | (216) 651-9300 |
| Contact email: | Not reported |
| EPA Region: | 05 |
| Classification: | Non-Generator |
| Description: | Handler: Non-Generators do not presently generate hazardous waste |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | NO ACTIVE O/OP AS NOT GENERATING WASTE |
| Owner/operator address: | Not reported<br>Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 10/02/2000 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NO ACTIVE O/OP AS NOT GENERATING WASTE |
| Owner/operator address: | Not reported<br>Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 10/02/2000 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |
| Off-site waste receiver: | Commercial status unknown |

**WAYNE GREASE DIVISION OF DARLING & CO (Continued)** **1000311251**

Universal Waste Summary:

| | |
|---|---|
| Waste type: | DEVICES CONTAINING ELEMENTAL MERCURY |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |
| Waste type: | MERCURY THERMOMETERS |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |
| Waste type: | MERCURY SWITCHES |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |
| Waste type: | Batteries |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |
| Waste type: | Lamps |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |
| Waste type: | Pesticides |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |
| Waste type: | Thermostats |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |

Historical Generators:

| | |
|---|---|
| Date form received by agency: | 10/05/1990 |
| Facility name: | WAYNE BI PRODUCTS |
| Classification: | Not a generator, verified |
| Violation Status: | No violations found |

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**B15** **SCOTT CONTAINER SERVICE INC** **RCRA-NonGen** **1007096660**
**ENE** **700 LEIGH ST** **MIK234558971**
**1/8-1/4** **DETROIT, MI 48209**
**0.142 mi.**
**750 ft.** **Site 4 of 4 in cluster B**

**Relative:**
**Lower**

**Actual:**
**585 ft.**

RCRA-NonGen:

| | |
|---|---|
| Date form received by agency: | 05/22/2002 |
| Facility name: | SCOTT CONTAINER SERVICE INC |
| Facility address: | 700 LEIGH ST<br>DETROIT, MI 48209 |
| EPA ID: | MIK234558971 |
| Mailing address: | PO BOX 10008<br>DETROIT, MI 48210 |
| Contact: | CHARLES SCOTT |
| Contact address: | 700 LEIGH ST<br>DETROIT, MI 48209 |
| Contact country: | Not reported |
| Contact telephone: | (313) 849-4553 |
| Contact email: | Not reported |
| EPA Region: | 05 |
| Classification: | Non-Generator |

**SCOTT CONTAINER SERVICE INC (Continued)** **1007096660**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | SCOTT CONTAINER |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 05/01/2001 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | SCOTT CONTAINER |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 05/01/2001 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |
| Off-site waste receiver: | Commercial status unknown |

Universal Waste Summary:

| | |
|---|---|
| Waste type: | DEVICES CONTAINING ELEMENTAL MERCURY |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |

| | |
|---|---|
| Waste type: | MERCURY THERMOMETERS |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |

| | |
|---|---|
| Waste type: | MERCURY SWITCHES |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |

| | |
|---|---|
| Waste type: | Batteries |
| Accumulated waste on-site: | No |

**SCOTT CONTAINER SERVICE INC (Continued)** **1007096660**

Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Violation Status: No violations found

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**16**
**ENE**
**1/8-1/4**
**0.211 mi.**
**1112 ft.**

**FORMER WAYNE CHEMICAL BUILDING (SITE 4)**
**9470 COPELAND**
**DETROIT, MI 48209**

**US BROWNFIELDS** **1009912778**
**N/A**

**Relative:**
**Higher**

**Actual:**
**587 ft.**

US BROWNFIELDS:

| | |
|---|---|
| Recipient name: | Wayne County Brownfield Redevelopment Authority |
| Project name: | Wayne Co Bflds Redev Auth, MI(A03) |
| Property name: | Former Wayne Chemical Building (Site 4) |
| Parcel #: | 20/005899 |
| Parcel size: | 1.23000 |
| Latitude: | 42.28943 |
| Longitude: | -83.12540 |
| Region: | 5 |
| HCM label: | Address Matching-House Number |
| Map scale: | Not reported |
| Point of reference: | Entrance Point of a Facility or Station |
| Datum: | World Geodetic System of 1984 |
| ACRES property ID: | 12442 |
| Start date: | 5/1/2006 |
| Completed date: | 5/1/2006 |
| Accomplishment type: | Phase II Environmental Assessment |
| Accomplishment (acres): | 0.00000 |
| Ownership entity: | Not reported |
| Current use: | Unoccupied |
| Current owner: | State of Michigan |
| Past use flag: | Not reported |
| Future use flag: | Not reported |
| Cleanup required: | Unknown |
| Proprietary controls: | Not reported |
| Gov. control: | Not reported |
| Enforcement permit tools: | Not reported |
| Info. devices: | Not reported |
| Video available: | No |
| Photo available: | Yes |
| Usage type: | Not reported |
| Not in state/tribal program: | Not reported |
| IC data address: | Not reported |
| IC in place date: | Not reported |
| IC in place flag: | Unknown |
| IC required flag: | Unknown |
| NFA issue date: | Not reported |

**FORMER WAYNE CHEMICAL BUILDING (SITE 4) (Continued)** **1009912778**

| | |
|---|---|
| State and tribal program date: | Not reported |
| State and tribal program ID: | Not reported |
| Air contaminated: | Not reported |
| Air cleaned: | Not reported |
| Asbestos found: | Not reported |
| Asbestos cleaned: | Not reported |
| Controled substance found: | Not reported |
| Controled substance cleaned: | Not reported |
| Drinking water affected: | Not reported |
| Drinking water cleaned: | Not reported |
| Groundwater affected: | Yes |
| Groundwater cleaned: | Yes |
| Lead contaminant found: | Yes |
| Lead cleaned up: | Yes |
| None found: | Not reported |
| None cleaned up: | Not reported |
| No media found: | Not reported |
| No media cleaned up: | Not reported |
| Other found: | Not reported |
| Other cleaned up: | Not reported |
| Other metals found: | Yes |
| Other metals cleaned: | Yes |
| PAHs found: | Yes |
| PAHs cleaned up: | Yes |
| PCBs found: | Not reported |
| PCBs cleaned up: | Not reported |
| Petro products found: | Yes |
| Petro products cleaned: | Yes |
| Sediments found: | Not reported |
| Sediments cleaned: | Not reported |
| Soil affected: | Yes |
| Soil cleaned up: | Yes |
| Surface water affected: | Not reported |
| Surface water cleaned: | Not reported |
| Unknown found: | Not reported |
| Unknwon cleaned: | Not reported |
| Unknown media: | Not reported |
| Unknown media cleaned: | Not reported |
| VOCs found: | Yes |
| VOCs cleaned: | Yes |

Property Description: Industrial use since at least 1918. Occupants include Wayne Soap Company, Wayne Chemical Products, Detroit Protein Products & Fire Protection, Buffalo Fire App., Fire Protection Co., Behr Properties, Detrex Chem. Corp., Meade Chem. Co. Current use- vacant gravel lot.

---

**17**
**NNW**
**1/8-1/4**
**0.229 mi.**
**1210 ft.**

**AMOCO OIL STATION #5916** **UST** **U003324854**
**DEARBORN & HERKIMER** **N/A**
**DETROIT, MI 48152**

**Relative:**
**Lower**

**Actual:**
**585 ft.**

UST:

| | |
|---|---|
| Facility ID: | 00021318 |
| Facility Type: | CLOSED |
| Latitude: | 42.2910498500 |
| Longitude: | -83.1309957700 |
| Owner Name: | Amoco Petroleum Products |
| Owner Address: | 17187 N Laurel Park Ste 365 |

**AMOCO OIL STATION #5916 (Continued)** **U003324854**

| | |
|---|---|
| Owner City,St,Zip: | Livonia, MI 48152-3954 |
| Owner Country: | USA |
| Owner Contact: | Jeff Weston |
| Owner Phone: | (734) 953-7013 |
| Contact: | J.E. WESTON |
| Contact Phone: | (313) 855-8388 |
| Date of Collection: | Not reported |
| Accuracy: | 15 |
| Accuracy Value Unit: | METERS |
| Horizontal Datum: | NAD83 |
| Source: | STATE OF MICHIGAN |
| Point Line Area: | POINT |
| Desc Category: | Not reported |
| Method of Collection: | Interpolation-Map |

| | |
|---|---|
| Tank ID: | 1 |
| **Tank Status:** | **Closed in Ground** |
| Capacity: | 6000 |
| Install Date: | Jun 1 1976 |
| Product: | Not reported |
| Remove Date: | Feb 1 1976 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Galvanized Steel |
| Piping Type: | Not reported |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

| | |
|---|---|
| Tank ID: | 3 |
| **Tank Status:** | **Closed in Ground** |
| Capacity: | 6000 |
| Install Date: | Jun 1 1976 |
| Product: | Not reported |
| Remove Date: | Feb 1 1976 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Galvanized Steel |
| Piping Type: | Not reported |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

| | |
|---|---|
| Tank ID: | 4 |
| **Tank Status:** | **Closed in Ground** |
| Capacity: | 6000 |
| Install Date: | Jun 1 1976 |
| Product: | Not reported |
| Remove Date: | Feb 1 1976 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Galvanized Steel |
| Piping Type: | Not reported |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

**AMOCO OIL STATION #5916 (Continued)** **U003324854**

| | |
|---|---|
| Tank ID: | 2 |
| **Tank Status:** | **Closed in Ground** |
| Capacity: | 6000 |
| Install Date: | Jun 1 1976 |
| Product: | Not reported |
| Remove Date: | Feb 1 1976 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Galvanized Steel |
| Piping Type: | Not reported |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

---

**C18** **DETROIT RIVER PAPER** **SHWS** **S105144815**
**SE** **9125 WEST JEFFERSON** **N/A**
**1/4-1/2** **DETROIT, MI 48209**
**0.343 mi.**
**1809 ft.** **Site 1 of 3 in cluster C**

**Relative:**
**Higher**

**Actual:**
**587 ft.**

SHWS:

| | |
|---|---|
| Facility ID: | 82000197 |
| Source: | Paper and Allied Products |
| SAM Score: | 36 out of 48 |
| SAM Score Date: | 09/05/1991 |
| Township: | 02S |
| Range: | 11E |
| Section: | 33 |
| Quarter: | NE |
| Quarter/Quarter: | NW |
| **Facility Status:** | **Interim Response conducted** |
| Pollutant(s): | 4,4'-DDE; 4,4'-DDT; Benzene; Ethylbenzene; PCB's; Toluene; Xylenes; Metals; PNAs |

---

**C19** **IPMC FACILITY (FORMER)** **BEA** **S107031698**
**SE** **9125 WEST JEFFERSON AVENUE** **N/A**
**1/4-1/2** **DETROIT, MI 48209**
**0.343 mi.**
**1809 ft.** **Site 2 of 3 in cluster C**

**Relative:**
**Higher**

**Actual:**
**587 ft.**

BEA:

| | |
|---|---|
| Secondary Address: | Parcels C1 and C2 |
| BEA Number: | 2840 |
| District: | Southeast MI |
| Date Received: | 7/11/2005 12:59:00 AM |
| Submitter Name: | Alliance Leasing and Rental, LLC |
| Petition Determination: | Affirmed |
| Petition Disclosure: | 1 |
| Category: | No Hazardous Substance(s) |
| Determination 20107A: | No Request |
| Reviewer: | novake |
| Division Assigned: | Environmental Response Division |

| | |
|---|---|
| Secondary Address: | Parcel B |
| BEA Number: | 2841 |
| District: | Southeast MI |

**IPMC FACILITY (FORMER) (Continued)** **S107031698**

| | |
|---|---|
| Date Received: | 7/11/2005 12:59:00 AM |
| Submitter Name: | Alliance Leasing and Rental, LLC |
| Petition Determination: | Affirmed |
| Petition Disclosure: | 1 |
| Category: | Same Hazardous Substance(s) |
| Determination 20107A: | No Request |
| Reviewer: | novake |
| Division Assigned: | Environmental Response Division |

| | |
|---|---|
| Secondary Address: | Parcel B |
| BEA Number: | 2851 |
| District: | Southeast MI |
| Date Received: | 7/18/2005 12:59:00 AM |
| Submitter Name: | Synagro-WWT, Inc. |
| Petition Determination: | Affirmed |
| Petition Disclosure: | 1 |
| Category: | Same Hazardous Substance(s) |
| Determination 20107A: | No Request |
| Reviewer: | novake |
| Division Assigned: | Environmental Response Division |

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**C20** **DETROIT WASTE SOLUTIONS** **FINDS** **1000392269**
**SE** **9125 W JEFFERSON AVE** **LUST** **MID099652372**
**1/4-1/2** **DETROIT, MI 48209** **UST**
**0.343 mi.** **AST**
**1809 ft.** **Site 3 of 3 in cluster C** **CERC-NFRAP**
**RCRA-NonGen**

**Relative:**
**Higher**

**Actual:**
**587 ft.**

FINDS:

Other Pertinent Environmental Activity Identified at Site

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

LUST:

**DETROIT WASTE SOLUTIONS (Continued)** **1000392269**

| | |
|---|---|
| Facility ID: | 00002873 |
| Source: | STATE OF MICHIGAN |
| Owner Name: | Ipmc Inc |
| Owner Address: | 9125 W Jefferson Ave |
| Owner City,St,Zip: | Detroit, MI 48209-2659 |
| Owner Contact: | Not reported |
| Owner Phone: | (313) 842-0042 |
| Country: | USA |
| District: | SE Michigan District Office |
| Site Name: | Detroit River Paper |
| Latitude: | 42.2822560000 |
| Longitude: | -83.1269700000 |
| Date of Collection: | 01-11-2001 |
| Method of Collection: | Address Matching-House Number |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Data: | NAD83 |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |

| | |
|---|---|
| Leak Number: | C-0473-90 |
| Release Date: | Mar 21 1990 |
| Substance Released: | Not reported |
| Release Status: | Closed |
| Release Closed Date: | Feb 14 1992 |

| | |
|---|---|
| Leak Number: | C-0751-92 |
| Release Date: | May 7 1992 |
| Substance Released: | Other,Kerosene |
| Release Status: | Closed |
| Release Closed Date: | Dec 23 1996 |

| | |
|---|---|
| Leak Number: | C-1079-89 |
| Release Date: | Dec 11 1989 |
| Substance Released: | Not reported |
| Release Status: | Closed |
| Release Closed Date: | Feb 10 1992 |

UST:

| | |
|---|---|
| Facility ID: | 00002873 |
| Facility Type: | CLOSED |
| Latitude: | 42.2822560000 |
| Longitude: | -83.1269700000 |
| Owner Name: | Ipmc Inc |
| Owner Address: | 9125 W Jefferson Ave |
| Owner City,St,Zip: | Detroit, MI 48209-2659 |
| Owner Country: | USA |
| Owner Contact: | Not reported |
| Owner Phone: | (313) 842-0042 |
| Contact: | LOUIS J. STURM |
| Contact Phone: | (313) 842-0042 |
| Date of Collection: | 01-11-2001 |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Datum: | NAD83 |
| Source: | STATE OF MICHIGAN |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |

**DETROIT WASTE SOLUTIONS (Continued)** **1000392269**

Method of Collection: Address Matching-House Number

Tank ID: 4
**Tank Status: Closed in Ground**
Capacity: 15000
Install Date: May 7 1946
Product: ROSIN SOAP
Remove Date: Jul 1 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Gravity Fed?,Suction: Valve at Tank
Constr Material: TILE
Impressed Device: No

Tank ID: 2
**Tank Status: Removed from Ground**
Capacity: 15000
Install Date: May 7 1956
Product: Hazardous Substance
Remove Date: Sep 30 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 5
**Tank Status: Removed from Ground**
Capacity: 2000
Install Date: May 8 1971
Product: Gasoline
Remove Date: Apr 30 1989
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 1
**Tank Status: Removed from Ground**
Capacity: 15000
Install Date: May 7 1956
Product: Kerosene
Remove Date: Sep 30 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

**DETROIT WASTE SOLUTIONS (Continued)** **1000392269**

Tank ID: 3
**Tank Status: Closed in Ground**
Capacity: 15000
Install Date: May 7 1946
Product: RESIN,Hazardous Substance,FORMALD. 8%,5,
Remove Date: Jul 1 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Gravity Fed?,Suction: Valve at Tank
Constr Material: Concrete
Impressed Device: No

AST:
Type: CLOSED
Owner Name: Amerigas
Owner Address: 22536 S Telegraph
Owner City,St,Zip: Trenton, MI 48183-6029
Owner County: USA
Owner Contact: Not reported
Owner Telephone: (800) 410-1400
Facility ID: 92082129
District: SE Michigan District Office
Contact: MEL SCHWARTZ
Facility Phone: (313) 842-0042
Tank ID: 1
Tank Status: Removed from Premises
Capacity: 1000
Install Date: Nov 4 1983
Content: Liquid Propane Gas
Close Date: Dec 10 2003

CERC-NFRAP:
Site ID: 0502703
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

Site Description: Not reported

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 12/31/1985
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 12/01/1987
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 12/01/1987
Priority Level: NFRAP (No Futher Remedial Action Planned

**DETROIT WASTE SOLUTIONS (Continued)** **1000392269**

RCRA-NonGen:

| | |
|---|---|
| Date form received by agency: | 07/31/2007 |
| Facility name: | DETROIT WASTE SOLUTIONS |
| Facility address: | 9125 W JEFFERSON AVE<br>DETROIT, MI 48209 |
| EPA ID: | MID099652372 |
| Mailing address: | 929 ALPINE AVE NW<br>GRAND RAPIDS, MI 49504 |
| Contact: | KEVIN ROSENDALL |
| Contact address: | 9125 W JEFFERSON AVE<br>DETROIT, MI 48209 |
| Contact country: | Not reported |
| Contact telephone: | (616) 437-7351 |
| Contact email: | Not reported |
| EPA Region: | 05 |
| Land type: | Other land type |
| Classification: | Non-Generator |
| Description: | Handler: Non-Generators do not presently generate hazardous waste |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | NO ACTIVE O/OP AS NOT GENERATING WASTE |
| Owner/operator address: | Not reported<br>Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 05/02/2006 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NO ACTIVE O/OP AS NOT GENERATING WASTE |
| Owner/operator address: | Not reported<br>Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 05/02/2006 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |

**DETROIT WASTE SOLUTIONS (Continued)** **1000392269**

Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 06/16/2006
Facility name: DETROIT WASTE SOLUTIONS
Classification: Not a generator, verified

Date form received by agency: 10/23/2003
Facility name: DETROIT WASTE SOLUTIONS
Classification: Not a generator, verified

Date form received by agency: 04/24/2003
Facility name: DETROIT WASTE SOLUTIONS
Classification: Not a generator, verified

Date form received by agency: 09/16/1991
Facility name: DETROIT WASTE SOLUTIONS
Classification: Not a generator, verified

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/20/2004
Date achieved compliance: 10/28/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/20/2004

**DETROIT WASTE SOLUTIONS (Continued)** **1000392269**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 02/20/2004
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 10/28/2004
Evaluation lead agency: State

Evaluation date: 08/18/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

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**D21** **ST MARYS CEMENT COMPANY** **FINDS** **1000296212**
**North** **9333 DEARBORN STREET** **LUST** **MID094553419**
**1/4-1/2** **DETROIT, MI 48209** **RCRA-TSDF**
**0.343 mi.** **UST**
**1812 ft.** **Site 1 of 2 in cluster D** **CORRACTS**
**CERC-NFRAP**
**Relative:** **RCRA-NonGen**
**Higher**

FINDS:
**Actual:** Other Pertinent Environmental Activity Identified at Site
**590 ft.**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

corrective action activities required under RCRA.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

LUST:

| | |
|---|---|
| Facility ID: | 00017353 |
| Source: | STATE OF MICHIGAN |
| Owner Name: | St Marys Peerless Cement Co |
| Owner Address: | 9333 Dearborn St |
| Owner City,St,Zip: | Detroit, MI 48209-2624 |
| Owner Contact: | Not reported |
| Owner Phone: | (313) 842-4600 |
| Country: | USA |
| District: | SE Michigan District Office |
| Site Name: | St. Mary's Cement Company |
| Latitude: | 42.2928870000 |
| Longitude: | -83.1286720000 |
| Date of Collection: | 01-11-2001 |
| Method of Collection: | Address Matching-House Number |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Data: | NAD83 |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |
| | |
| Leak Number: | C-2140-92 |
| Release Date: | Dec 4 1992 |
| Substance Released: | Diesel,Gasoline |
| Release Status: | Closed |
| Release Closed Date: | Aug 8 2001 |

RCRA-TSDF:

| | |
|---|---|
| Date form received by agency: | 04/02/2008 |
| Facility name: | ST MARYS CEMENT |
| Facility address: | 9333 DEARBORN ST<br>DETROIT, MI 48209 |
| EPA ID: | MID094553419 |
| Contact: | LINDA HARRIS |
| Contact address: | 9333 DEARBORN ST<br>DETROIT, MI 48209 |
| Contact country: | Not reported |
| Contact telephone: | (313) 849-4581 |
| Contact email: | Not reported |
| EPA Region: | 05 |
| Land type: | Private |
| Classification: | TSDF |
| Description: | Handler is engaged in the treatment, storage or disposal of hazardous waste |
| TSD commencement date: | Not reported |
| Classification: | Non-Generator |
| Description: | Handler: Non-Generators do not presently generate hazardous waste |

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | VOTORANTIM |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 08/02/2002 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | ST MARYS CEMENT |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 08/01/2002 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | ST MARYS CEMENT |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 08/01/2002 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | VOTORANTIM |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 08/02/2002 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:
Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:
Date form received by agency: 03/01/2006
Facility name: ST MARYS CEMENT
Classification: Small Quantity Generator

Date form received by agency: 03/01/2006
Facility name: ST MARYS CEMENT
Classification: Not a generator, verified

Date form received by agency: 04/20/2005
Facility name: ST MARYS CEMENT
Classification: Not a generator, verified

Date form received by agency: 09/30/2003
Facility name: ST MARYS CEMENT
Classification: Not a generator, verified

Date form received by agency: 12/31/2002
Facility name: ST MARYS CEMENT
Classification: Not a generator, verified

Date form received by agency: 12/30/2001
Facility name: ST MARYS CEMENT
Classification: Not a generator, verified

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Date form received by agency: 01/18/1995
Facility name: ST MARYS CEMENT
Classification: Not a generator, verified

Date form received by agency: 08/31/1987
Facility name: ST MARYS CEMENT
Classification: Not a generator, verified

Date form received by agency: 08/26/1980
Facility name: ST MARYS CEMENT
Classification: Not a generator, verified

Biennial Reports:

Last Biennial Reporting Year: 2005

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 530.4

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 79.1

Waste code: D039
Waste name: TETRACHLOROETHYLENE
Amount (Lbs): 433.7

Corrective Action Summary:

Event date: 01/24/1991
Event: RFA Completed

Event date: 09/30/1993
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/31/1994
Event: Stabilization Measures Evaluation,This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.

Event date: 09/07/2000

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Event: RFI Imposition, Focused data collection required for stabilization evaluation.

Event date: 07/20/2001
Event: CA005EP

Event date: 06/30/2003
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 06/30/2003
Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Permits - Conditions
Date violation determined: 12/18/2001
Date achieved compliance: 05/10/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/18/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Permits - Conditions
Date violation determined: 12/18/2001
Date achieved compliance: 05/10/2005
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 03/23/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Area of violation: Generators - General
Date violation determined: 11/04/1999
Date achieved compliance: 02/14/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/04/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 11/22/1995
Date achieved compliance: 08/06/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/22/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 09/21/1995
Date achieved compliance: 03/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/21/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/14/1994
Date achieved compliance: 08/22/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/21/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Specific - Boilers and Industrial Furnaces

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Date violation determined: 08/31/1993
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/31/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 08/31/1993
Date achieved compliance: 02/09/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/31/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 09/12/1991
Date achieved compliance: 11/15/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/13/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 09/12/1991
Date achieved compliance: 11/15/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/13/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 09/11/1990

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Date achieved compliance: 12/20/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/28/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 02/28/1989
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/07/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/31/1988
Date achieved compliance: 05/19/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/07/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/31/1988
Date achieved compliance: 11/15/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/07/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 12/18/2001
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Permits - Conditions

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Date achieved compliance: 05/10/2005
Evaluation lead agency: State

Evaluation date: 10/21/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/14/2000
Evaluation lead agency: State

Evaluation date: 03/14/1997
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/03/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/06/1996
Evaluation lead agency: State

Evaluation date: 09/21/1995
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/04/1996
Evaluation lead agency: State

Evaluation date: 01/14/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 08/22/1995
Evaluation lead agency: State

Evaluation date: 08/31/1993
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 02/09/1994
Evaluation lead agency: State

Evaluation date: 08/12/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Specific - Boilers and Industrial Furnaces
Date achieved compliance: 02/09/1994
Evaluation lead agency: State

Evaluation date: 08/27/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/12/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 11/15/1991
Evaluation lead agency: State

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Evaluation date: 09/12/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/15/1991
Evaluation lead agency: State

Evaluation date: 09/11/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/11/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 12/20/1990
Evaluation lead agency: State

Evaluation date: 04/20/1990
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/28/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/28/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 08/18/1989
Evaluation lead agency: State

Evaluation date: 03/31/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/15/1991
Evaluation lead agency: State

Evaluation date: 03/31/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 05/19/1988
Evaluation lead agency: State

UST:
Facility ID: 00017353
Facility Type: CLOSED
Latitude: 42.2928870000
Longitude: -83.1286720000
Owner Name: St Marys Peerless Cement Co
Owner Address: 9333 Dearborn St
Owner City,St,Zip: Detroit, MI 48209-2624
Owner Country: USA
Owner Contact: Not reported

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

| | |
|---|---|
| Owner Phone: | (313) 842-4600 |
| Contact: | LARRY W LADOMER |
| Contact Phone: | (313) 842-4600 |
| Date of Collection: | 01-11-2001 |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Datum: | NAD83 |
| Source: | STATE OF MICHIGAN |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |
| Method of Collection: | Address Matching-House Number |

| | |
|---|---|
| Tank ID: | 1 |
| **Tank Status:** | **Removed from Ground** |
| Capacity: | 20000 |
| Install Date: | May 1 1970 |
| Product: | Diesel |
| Remove Date: | Dec 17 1992 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Bare Steel |
| Piping Type: | Suction: No Valve At Tank |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

| | |
|---|---|
| Tank ID: | 3 |
| **Tank Status:** | **Removed from Ground** |
| Capacity: | 2000 |
| Install Date: | May 1 1970 |
| Product: | Diesel |
| Remove Date: | Dec 16 1992 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Bare Steel |
| Piping Type: | Suction: No Valve At Tank |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

| | |
|---|---|
| Tank ID: | 2 |
| **Tank Status:** | **Removed from Ground** |
| Capacity: | 2000 |
| Install Date: | May 1 1970 |
| Product: | Gasoline |
| Remove Date: | Dec 16 1992 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Bare Steel |
| Piping Type: | Suction: No Valve At Tank |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

CORRACTS:

EPA ID: MID094553419

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 01/24/1991
Action: CA050 - RFA Completed
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID094553419
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 03/31/1994
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID094553419
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 06/30/2003
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID094553419
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 06/30/2003
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID094553419
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 09/07/2000
Action: CA100DC - RFI Imposition, Focused data collection required for stabilization evaluation
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID094553419
EPA Region: 05

**ST MARYS CEMENT COMPANY (Continued)** **1000296212**

Area Name: ENTIRE FACILITY
Actual Date: 09/30/1993
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

CERC-NFRAP:
Site ID: 0507337
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

Site Description: Not reported

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/23/1993
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 10/07/1993
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 02/14/1996
Priority Level: Not reported

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**D22** **BLUE CIRCLE CEMENT CO.** **DEL SHWS** **S108633165**
**North** **9333 DEARBORN STREET** **N/A**
**1/4-1/2** **WAYNE (County), MI**
**0.343 mi.**
**1812 ft.** **Site 2 of 2 in cluster D**

**Relative:**
**Higher**

**Actual:**
**590 ft.**

DELETED HWS:
Facility ID: 82001762
Status: Delisted - no longer meets criteria specified in rules

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**E23** **PEERLESS CEMENT BRENNAN PLT** **CERC-NFRAP** **1003871847**
**SSW** **9785 BRENNEN ST** **MID981193394**
**1/4-1/2** **DETROIT, MI 48209**
**0.348 mi.**
**1838 ft.** **Site 1 of 2 in cluster E**

**Relative:**
**Lower**

**Actual:**
**580 ft.**

CERC-NFRAP:
Site ID: 0503564
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

Site Description: Not reported

**PEERLESS CEMENT BRENNAN PLT (Continued)** **1003871847**

CERCLIS-NFRAP Assessment History:

| | |
|---|---|
| Action: | DISCOVERY |
| Date Started: | Not reported |
| Date Completed: | 12/31/1985 |
| Priority Level: | Not reported |
| Action: | ARCHIVE SITE |
| Date Started: | Not reported |
| Date Completed: | 12/11/1987 |
| Priority Level: | Not reported |
| Action: | PRELIMINARY ASSESSMENT |
| Date Started: | Not reported |
| Date Completed: | 12/11/1987 |
| Priority Level: | NFRAP (No Futher Remedial Action Planned |

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**E24 SSW 1/4-1/2 0.348 mi. 1838 ft.** | **MARBLEHEAD LIME CO-DETROIT PLANT** | **LUST** | **U002303907**
**9785 BRENNAN AVE** | **UST** | **N/A**
**DETROIT, MI 60411**

**Site 2 of 2 in cluster E**

**Relative: Lower**

**Actual: 580 ft.**

LUST:

| | |
|---|---|
| Facility ID: | 00018299 |
| Source: | STATE OF MICHIGAN |
| Owner Name: | Marblehead Lime Co |
| Owner Address: | MEMBER OF THE CALCITHERN GROUP 390 E JOE ORR RD |
| Owner City,St,Zip: | CHICAGO HTS, IL 60411-9488 |
| Owner Contact: | Not reported |
| Owner Phone: | (708) 757-6201 |
| Country: | USA |
| District: | SE Michigan District Office |
| Site Name: | Marblehead Lime Co. - Detroit Pl |
| Latitude: | 42.2835970000 |
| Longitude: | -83.1328860000 |
| Date of Collection: | 01-11-2001 |
| Method of Collection: | Address Matching-House Number |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Data: | NAD83 |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |
| Leak Number: | C-0541-94 |
| Release Date: | Jun 1 1994 |
| Substance Released: | Diesel,Other |
| Release Status: | Closed |
| Release Closed Date: | Feb 6 1998 |

UST:

| | |
|---|---|
| Facility ID: | 00018299 |
| Facility Type: | CLOSED |
| Latitude: | 42.2835970000 |
| Longitude: | -83.1328860000 |
| Owner Name: | Marblehead Lime Co |
| Owner Address: | MEMBER OF THE CALCITHERN GROUP 390 E JOE ORR RD |
| Owner City,St,Zip: | CHICAGO HTS, IL 60411-9488 |
| Owner Country: | USA |

**MARBLEHEAD LIME CO-DETROIT PLANT (Continued)** **U002303907**

| | |
|---|---|
| Owner Contact: | Not reported |
| Owner Phone: | (708) 757-6201 |
| Contact: | PHIL RAINES |
| Contact Phone: | (313) 841-5418 |
| Date of Collection: | 01-11-2001 |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Datum: | NAD83 |
| Source: | STATE OF MICHIGAN |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |
| Method of Collection: | Address Matching-House Number |

| | |
|---|---|
| Tank ID: | MLCDT-1 |
| **Tank Status:** | **Removed from Ground** |
| Capacity: | 10000 |
| Install Date: | May 7 1956 |
| Product: | Diesel |
| Remove Date: | Jun 1 1994 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Bare Steel |
| Piping Type: | Not reported |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

| | |
|---|---|
| Tank ID: | MLCDT-2 |
| **Tank Status:** | **Removed from Ground** |
| Capacity: | 15000 |
| Install Date: | May 7 1956 |
| Product: | BUNKER/OIL |
| Remove Date: | Jun 1 1994 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Bare Steel |
| Piping Type: | Not reported |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

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**25**
**SSE**
**1/4-1/2**
**0.358 mi.**
**1890 ft.**

**CITY OF DETROIT WASTEWATER TREATMENT PLA**
**9300 W JEFFERSON AVE**
**DETROIT, MI 48209**

**FINDS** **1000367004**
**LUST** **MID000775940**
**UST**
**RCRA-CESQG**

**Relative:**
**Equal**

**Actual:**
**586 ft.**

FINDS:
Other Pertinent Environmental Activity Identified at Site

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major

**CITY OF DETROIT WASTEWATER TREATMENT PLA (Continued)** **1000367004**

redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

LUST:

| | |
|---|---|
| Facility ID: | 00021394 |
| Source: | STATE OF MICHIGAN |
| Owner Name: | City of Detroit (DWSD) |
| Owner Address: | 735 Randolph |
| Owner City,St,Zip: | Detroit, MI 48226 |
| Owner Contact: | Gopal Roy |
| Owner Phone: | (313) 237-3900 |
| Country: | USA |
| District: | SE Michigan District Office |
| Site Name: | Detroit Water & Sewage Dept- Jef |
| Latitude: | 42.4034770000 |
| Longitude: | -83.0098370000 |
| Date of Collection: | 27-08-2001 |
| Method of Collection: | GPS Code Meas. Standard Positioning Service SA Off |
| Accuracy: | 10 |

**CITY OF DETROIT WASTEWATER TREATMENT PLA (Continued)** **1000367004**

Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-1510-90
Release Date: Aug 14 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Mar 21 1994

Leak Number: C-1769-92
Release Date: Oct 6 1992
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: Dec 14 1992

Leak Number: C-1889-92
Release Date: Oct 23 1992
Substance Released: Diesel
Release Status: Closed
Release Closed Date: Dec 17 1993

UST:
Facility ID: 00021394
Facility Type: ACTIVE
Latitude: 42.4034770000
Longitude: -83.0098370000
Owner Name: City of Detroit (DWSD)
Owner Address: 735 Randolph
Owner City,St,Zip: Detroit, MI 48226
Owner Country: USA
Owner Contact: Gopal Roy
Owner Phone: (313) 237-3900
Contact: GOOPAL C ROY P.E
Contact Phone: 313-965-9773
Date of Collection: 27-08-2001
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 3
**Tank Status: Removed from Ground**
Capacity: 20000
Install Date: Mar 23 1937
Product: Diesel
Remove Date: Aug 1 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

**CITY OF DETROIT WASTEWATER TREATMENT PLA (Continued)** **1000367004**

Tank ID: 5
**Tank Status: Removed from Ground**
Capacity: 20000
Install Date: Mar 23 1937
Product: Diesel
Remove Date: Aug 1 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
**Tank Status: Removed from Ground**
Capacity: 20000
Install Date: Mar 23 1937
Product: Diesel
Remove Date: Aug 1 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 6
**Tank Status: Removed from Ground**
Capacity: 10000
Install Date: Jan 1 1970
Product: DIES/KERO
Remove Date: Oct 24 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: 2 COATS BITUMASTIC
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
**Tank Status: Removed from Ground**
Capacity: 1000
Install Date: Mar 23 1937
Product: Gasoline
Remove Date: Aug 1 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 1

**CITY OF DETROIT WASTEWATER TREATMENT PLA (Continued)** **1000367004**

| | |
|---|---|
| **Tank Status:** | **Removed from Ground** |
| Capacity: | 2000 |
| Install Date: | Mar 23 1974 |
| Product: | Gasoline |
| Remove Date: | Oct 26 1992 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Galvanized Steel |
| Piping Type: | Not reported |
| Constr Material: | Fiberglass Reinforced plastic |
| Impressed Device: | No |

| | |
|---|---|
| Tank ID: | 8 |
| **Tank Status:** | **Currently In Use** |
| Capacity: | 10000 |
| Install Date: | Aug 1 1990 |
| Product: | Diesel |
| Remove Date: | Not reported |
| Tank Release Detection: | Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inter Monitoring/Second Containment |
| Pipe Realease Detection: | Interstitial Monitoring Double Walled Piping,Interstitial Monitoring/Second Containment |
| Piping Material: | Double Walled,FLEXIBLE |
| Piping Type: | Pressure |
| Constr Material: | Double Walled,Fiberglass Reinforced plastic |
| Impressed Device: | No |

| | |
|---|---|
| Tank ID: | 7 |
| **Tank Status:** | **Currently In Use** |
| Capacity: | 10000 |
| Install Date: | Mar 31 1987 |
| Product: | Gasoline |
| Remove Date: | Not reported |
| Tank Release Detection: | Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inter Monitoring/Second Containment |
| Pipe Realease Detection: | Interstitial Monitoring Double Walled Piping,Line Tightness Testing |
| Piping Material: | Double Walled,Fiberglass reinforced plastic |
| Piping Type: | Pressure |
| Constr Material: | Double Walled,Fiberglass Reinforced plastic |
| Impressed Device: | No |

RCRA-CESQG:

| | |
|---|---|
| Date form received by agency: | 02/07/2008 |
| Facility name: | CITY OF DETROIT WASTEWATER TREATMENT PLA |
| Facility address: | 9300 W JEFFERSON AVE<br>DETROIT, MI 48209 |
| EPA ID: | MID000775940 |
| Contact: | HERBERT HARRIS |
| Contact address: | 9300 W JEFFERSON AVE<br>DETROIT, MI 48209 |
| Contact country: | Not reported |
| Contact telephone: | (313) 297-0329 |
| Contact email: | Not reported |
| EPA Region: | 05 |
| Classification: | Conditionally Exempt Small Quantity Generator |

**CITY OF DETROIT WASTEWATER TREATMENT PLA (Continued)** **1000367004**

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | DETROIT WASTEWATER TRMT PLT |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Municipal |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 01/01/1970 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | DETROIT WASTEWATER TRMT PLT |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Municipal |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 01/01/1970 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |
| Off-site waste receiver: | Commercial status unknown |

Universal Waste Summary:

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY

**CITY OF DETROIT WASTEWATER TREATMENT PLA (Continued)** **1000367004**

Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:
Date form received by agency: 11/19/1980
Facility name: CITY OF DETROIT WASTEWATER TREATMENT PLA
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/19/1980
Facility name: CITY OF DETROIT WASTEWATER TREATMENT PLA
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

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**F26** **DETROIT MARINE TERMINALS** **LUST** **U003330029**
**SSE** **9401 W JEFFERSON AVE** **UST** **N/A**
**1/4-1/2** **DETROIT, MI 48209**
**0.376 mi.**
**1984 ft.** **Site 1 of 2 in cluster F**

**Relative:**
**Lower**

**Actual:**
**584 ft.**

LUST:
Facility ID: 00013252
Source: STATE OF MICHIGAN
Owner Name: City of Detroit Water & Sewerage
Owner Address: 9401 W Jefferson Ave
Owner City,St,Zip: Detroit, MI 48209-2675
Owner Contact: Not reported
Owner Phone: (313) 297-5921
Country: USA
District: SE Michigan District Office
Site Name: Detroit Marine Terminals
Latitude: 42.2816390000
Longitude: -83.1277290000
Date of Collection: 01-11-2001

**DETROIT MARINE TERMINALS (Continued)** **U003330029**

| | |
|---|---|
| Method of Collection: | Address Matching-House Number |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Data: | NAD83 |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |

| | |
|---|---|
| Leak Number: | C-0575-97 |
| Release Date: | Jul 21 1997 |
| Substance Released: | Unknown |
| Release Status: | Closed |
| Release Closed Date: | Feb 10 1998 |

UST:

| | |
|---|---|
| Facility ID: | 00013252 |
| Facility Type: | CLOSED |
| Latitude: | 42.2816390000 |
| Longitude: | -83.1277290000 |
| Owner Name: | City of Detroit Water & Sewerage |
| Owner Address: | 9401 W Jefferson Ave |
| Owner City,St,Zip: | Detroit, MI 48209-2675 |
| Owner Country: | USA |
| Owner Contact: | Not reported |
| Owner Phone: | (313) 297-5921 |
| Contact: | DINESH R VYAS |
| Contact Phone: | (313) 297-5921 |
| Date of Collection: | 01-11-2001 |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Datum: | NAD83 |
| Source: | STATE OF MICHIGAN |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |
| Method of Collection: | Address Matching-House Number |

| | |
|---|---|
| Tank ID: | 2 |
| **Tank Status:** | **Removed from Ground** |
| Capacity: | 1500 |
| Install Date: | May 6 1985 |
| Product: | Gasoline |
| Remove Date: | Jul 21 1997 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Fiberglass reinforced plastic |
| Piping Type: | Suction: Valve at Tank |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

| | |
|---|---|
| Tank ID: | 3 |
| **Tank Status:** | **Removed from Ground** |
| Capacity: | 1500 |
| Install Date: | Not reported |
| Product: | Not reported |
| Remove Date: | Apr 3 2000 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Unknown |

**DETROIT MARINE TERMINALS (Continued)** **U003330029**

Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 1
**Tank Status: Removed from Ground**
Capacity: 10000
Install Date: May 6 1980
Product: Diesel
Remove Date: Jul 21 1997
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

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**F27**
**SSE**
**1/4-1/2**
**0.376 mi.**
**1984 ft.**

**DETROIT CITY OF WATER & SEWERAGE DEPT.** **BEA** **S104912050**
**9401 W. JEFFERSON AVENUE** **N/A**
**DETROIT, MI**

**Site 2 of 2 in cluster F**

**Relative:**
**Lower**

**Actual:**
**584 ft.**

BEA:
Secondary Address: Not reported
BEA Number: 776
District: Southeast MI
Date Received: 12/1/1998
Submitter Name: CITY OF DETROIT WATER & SEWERAGE DEPT.
Petition Determination: Affirmed
Petition Disclosure: 1
Category: Different Hazardous Substance(s)
Determination 20107A: Pending
Reviewer: russelje
Division Assigned: Environmental Response Division

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**28**
**WNW**
**1/4-1/2**
**0.388 mi.**
**2049 ft.**

**PEERLESS CEMENT FORMAN PLANT** **CERC-NFRAP** **1003871830**
**100 SOUTH FORMAN AVENUE** **MID981190051**
**DETROIT, MI 48209**

**Relative:**
**Lower**

**Actual:**
**585 ft.**

CERC-NFRAP:
Site ID: 0503545
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: PEERLESS CEMENT FORMAN PLT
Alias Address: 100 S FORMAN AVE
DETROIT, MI 48209
Site Description: Not reported

CERCLIS-NFRAP Assessment History:

**PEERLESS CEMENT FORMAN PLANT (Continued)** **1003871830**

| | |
|---|---|
| Action: | DISCOVERY |
| Date Started: | Not reported |
| Date Completed: | 12/31/1985 |
| Priority Level: | Not reported |
| | |
| Action: | ARCHIVE SITE |
| Date Started: | Not reported |
| Date Completed: | 12/11/1987 |
| Priority Level: | Not reported |
| | |
| Action: | PRELIMINARY ASSESSMENT |
| Date Started: | Not reported |
| Date Completed: | 12/11/1987 |
| Priority Level: | NFRAP (No Futher Remedial Action Planned |

---

**G29** **MARINE POLLUTION CONTROL** **LUST** **1004638808**
**East** **8631 W JEFFERSON AVE** **N/A**
**1/4-1/2** **DETROIT, MI 48209**
**0.464 mi.**
**2452 ft.** **Site 1 of 2 in cluster G**

**Relative:**
**Lower**

**Actual:**
**583 ft.**

LUST:

| | |
|---|---|
| Facility ID: | 00019771 |
| Source: | STATE OF MICHIGAN |
| Owner Name: | Marine Pollution Control |
| Owner Address: | 8631 W Jefferson Ave |
| Owner City,St,Zip: | Detroit, MI 48209-2651 |
| Owner Contact: | Not reported |
| Owner Phone: | (313) 849-2333 |
| Country: | USA |
| District: | SE Michigan District Office |
| Site Name: | Marine Pollution Control |
| Latitude: | 42.2843480000 |
| Longitude: | -83.1243870000 |
| Date of Collection: | 01-11-2001 |
| Method of Collection: | Address Matching-House Number |
| Accuracy: | 100 |
| Accuracy Value Unit: | FEET |
| Horizontal Data: | NAD83 |
| Point Line Area: | POINT |
| Desc Category: | Plant Entrance (Freight) |
| | |
| Leak Number: | C-0443-97 |
| Release Date: | Jun 11 1997 |
| Substance Released: | Diesel |
| Release Status: | Closed |
| Release Closed Date: | Jan 28 1998 |

**G30 East 1/4-1/2 0.464 mi. 2452 ft.** | **DBA TEXAS MPC**
**8631 W JEFFERSON AVE**
**DETROIT, MI 48209**

**Site 2 of 2 in cluster G**

**Ind. Haz Waste** | **S103614311**
**N/A**

**Relative: Lower**

**Actual: 583 ft.**

Ind. Haz Waste:

| | |
|---|---|
| Transporters Registration Number: | 85194 |
| Registration Initial Notification Date: | 19970707 |
| Registration Last Amendment Date: | 20010215 |
| EPA Identification: | MID049277718 |
| Primary NAICS Code: | 484121 |
| Status Change Date: | 19970707 |
| Land Type: | Not reported |
| Description of Facility Site Location: | 8631 W Jefferson Ave, Detroit, MI |
| Site Primary Standard Industrial Code: | 42130 |
| Site Primary SIC Description: | Trucking, Except Local |
| Registration is Generator of Waste: | No |
| Registration is Receivers of Waste: | No |
| Registration is Transporter of Waste: | Yes |
| Registration is Transfer Facility: | No |
| Facility is STEERS Reporter: | No |
| Reqired to Submit Annual Waste Summary: | No |
| Facility Involved In Recycling: | No |
| Revcr Has Monthly Reporting Requirement: | 0 |
| Mexican Facility: | Does not represent a Maquiladora (Mexican Facility) |
| Facility Status: | Active |
| Type of Generator: | Not reported |
| TNRCC Region Number: | Not reported |
| TNRCC Region: | Not reported |
| Company Name: | Marine Pollution Control Corp |
| Contact Name: | Latonya R Cadwell |
| Contact Telephone Number: | 313-849-2670 |
| Mailing Address: | 8631 W Jefferson Ave |
| Mailing Address2: | Not reported |
| Mailing City,St,Zip: | Detroit, MI 48209 2691 |
| Mailing County: | USA |
| Facility County Code: | Not reported |
| Facility County: | Not reported |
| Facility Country: | Not reported |
| TNRCC Facility ID: | 105948 |
| Site Owner Tax ID: | Not reported |
| Site Location Latitude: | Not reported |
| Site Location Longitude: | Not reported |
| Last Update to NOR Data: | 20070208 |
| Ind. waste permit Number: | Not reported |
| Mun waste permit Number: | Not reported |
| Non Notifier: | No |
| Year: | 2006 |

OWNER:

| | |
|---|---|
| Owner Mailing Address: | 8631 W Jefferson Ave |
| Owner Mailing Address2: | Not reported |
| Owner City,St,Zip: | Detroit, MI 48209 2691 |
| Owner Country: | USA |
| Owner Phone Number: | 313-849-2670 |
| Owner Fax Number: | Not reported |
| Owner Email Address: | Not reported |
| Owner Business Type: | Unknown |
| Owner Tax Id: | Not reported |

**DBA TEXAS MPC (Continued)** **S103614311**

Owner Bankruptcy Code: 0

OPERATOR:
Operator Last Name: Not reported
Operator First Name: Not reported
Operator Name: Not reported
Operator Mailing Address: Not reported
Operator Mailing Address 2: Not reported
Operator Mailing City,St,Zip: Not reported
Operator Country: Not reported
Operator Phone: Not reported
Operator Fax: Not reported
Operator Email: Not reported
Operator Business Type: Not reported
Operator Tax Id: Not reported
Operator Bankruptcy Code: Not reported

CONTACT:
Contact Name: Latonya R Cadwell
Contact Title: Compliance
Contact Role: Primary Contact
Contact Address: 8631 W Jefferson Ave
Contact Address2: Not reported
Conact City,St,Zip: Detroit, MI 48209 2691
Contact Phone: 313-849-2670
Contact Fax: Not reported
Contact Email: Not reported
Business Desc: Not reported

UNIT:
Unit No: Not reported
Unit Type Code: Not reported
Unit Type: Not reported
Unit Status: Not reported
Unit Regulatory Status: Not reported
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Not reported
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: Not reported
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Waste Desc: Not reported
Dt Last Changed: Not reported
WasteID: ,

ACTIVITY:

**DBA TEXAS MPC (Continued)** **S103614311**

Activity Type Involves: Not reported
Activity Desc: Not reported

OTS:
Site Name: Not reported
One-time Shipper ID: Not reported
Location Desc: Not reported
Location Address: Not reported
Location Address 2: Not reported
Location City: Not reported
Location Zip: Not reported
Broker Name: Not reported
EPA Waste Source Code: Not reported
EPA System Type Code: Not reported
EPA Form: Not reported
EPA Waste No: Not reported
Broker Phone: Not reported
Date Processing Complete: Not reported
Date Request Sent: Not reported
Company Name: Not reported
Waste ID: Not reported
Waste Form: Not reported
Waste Class: Not reported
Waste Origin Code: Not reported
Shipment Request ID: Not reported
Waste Code Audited: Not reported

RCV:
Waste Receipts Summary Form Code: Not reported
State Manifest Documentaion Number: Not reported
Generators TX Registration Number: Not reported
Generators EPA ID: Not reported
Generators Waste Code: Not reported
Generators Waste Classification: Not reported
Generators Waste Form Code: Not reported
Generators Waste Form: Not reported
Quantity Shipped: Not reported
Units: Not reported
How Waste Handled by Receivers: Not reported
Receivers Date: Not reported
Transporters Registration Number: Not reported
Shipment Comment: Not reported
EPA Haz Waste: Not reported
EPA Haz Waste: Not reported
EPA Haz Waste: Not reported
EPA Haz Waste: Not reported
Receiver Name: Not reported
Reporting method: Not reported
No Shipmnts Recvd In Rept Period: Not reported
Record Creation Date: Not reported
Record Contains Error: Not reported
Record ID: Not reported
Co. Submitting Report: Not reported
Authorized Agent Submitting Report: Not reported
Authorized Agent Title: Not reported

ANNUAL:
Waste Code: Not reported
Waste Class: Not reported

**DBA TEXAS MPC (Continued)** **S103614311**

Generators Waste Form Code: Not reported
Generators Waste Form: Not reported
Texas Waste Code: Not reported
Quantity Shipped: Not reported
Unit Quantity Handled: Not reported
More than 1.1 Tons Waste Gen: Not reported
More than 2.2 lbs Acute Waste Gen: Not reported
How Waste Handled By Recievers: Not reported
Facility Id: Not reported
EPA Identification: Not reported
Comments: Not reported
EPA Waste Code: Not reported
EPA Haz Waste: Not reported
DEF Code1: Not reported
EPA Haz Waste: Not reported
DEF Code2: Not reported
EPA Haz Waste: Not reported
DEF Code3: Not reported
EPA Haz Waste: Not reported
Unit Quantity Handled: Not reported
Fee Exemption Request: Not reported
Resolution of Exemption Request: Not reported
Report Required: Not reported
Record Creation Date: Not reported
Record Contains Error: Not reported
Reporting method: Not reported
Record ID: Not reported
Co. Submitting Report: Not reported
Authorized Agent Submitting Report: Not reported
Authorized Agent Title: Not reported
Total Qty Generated: Not reported

WASTE:
Waste ID: Not reported
Waste Desc Yr: Not reported
Waste Descrptn: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: Not reported
Waste Code Status: Not reported
Waste Form Code: Not reported
Waste Form: Not reported
Waste Classification: Not reported
Waste is Radioactive: Not reported
Waste Treated Off Site: Not reported
Primary Standard Industustrial Code: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Source: Not reported
Primary Measurenent Point Code: Not reported
Primary Measurenent Point: Not reported
Primary Origin Code: Not reported
Primary Origin: Not reported
Primary System Type Code: Not reported
Primary System Type: Not reported
New Chemical Substance: Not reported
Audit Performed: Not reported
Company Waste ID: Not reported

**DBA TEXAS MPC (Continued)** **S103614311**

Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Click this hyperlink while viewing on your computer to access additional TX IHW: detail in the EDR Site Report.

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**31**
**WNW**
**1/4-1/2**
**0.469 mi.**
**2477 ft.**

**HARRIDON TERMINAL**
**123 CROWN STREET**
**DETROIT, MI 48209**

**BEA** **S106174453**
**N/A**

**Relative:**
**Lower**

**Actual:**
**583 ft.**

BEA:
Secondary Address: Not reported
BEA Number: 2234
District: Southeast MI
Date Received: 12/23/2003 12:59:00 AM
Submitter Name: Holcim (US) Inc.
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: thorntop
Division Assigned: Environmental Response Division

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**32**
**SW**
**1/2-1**
**0.857 mi.**
**4526 ft.**

**ACCU PARK**
**789 DEACON**
**DETROIT, MI**

**SHWS** **S105144802**
**N/A**

**Relative:**
**Lower**

**Actual:**
**581 ft.**

SHWS:
Facility ID: 82000148
Source: Soap & Other Detergents
SAM Score: 17 out of 48
SAM Score Date: 09/07/1990
Township: 02S
Range: 11E
Section: 32
Quarter: Not reported
Quarter/Quarter: Not reported
**Facility Status: Inactive - no actions taken to address contamination**
Pollutant(s): Liquid waste; Waste oil

**33 SSE 1/2-1 0.879 mi. 4642 ft.**

**AMOCO RIVER ROUGE TERMINAL**
**205 MARION ST**
**RIVER ROUGE, MI**

**SHWS** **S105144796**
**N/A**

**Relative: Lower**

**Actual: 578 ft.**

SHWS:

| | |
|---|---|
| Facility ID: | 82000122 |
| Source: | Gas Production & Distribution |
| SAM Score: | 30 out of 48 |
| SAM Score Date: | 03/15/2004 |
| Township: | 02S |
| Range: | 11E |
| Section: | 33 |
| Quarter: | SE |
| Quarter/Quarter: | NW |
| **Facility Status:** | **Interim Response in progress** |
| Pollutant(s): | Pb; Ag; Fuel oil; Gasoline |

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**34 ENE 1/2-1 0.896 mi. 4731 ft.**

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT**
**1200 ZUG ISLAND ROAD BOX 33950**
**DETROIT, MI 48209**

**SHWS** **1000248868**
**FINDS** **48209LLDSG12**
**RCRA-LQG**
**TRIS**
**RCRA-TSDF**
**UST**
**TSCA**
**CORRACTS**
**CERC-NFRAP**
**FTTS**
**HIST FTTS**

**Relative: Equal**

**Actual: 586 ft.**

SHWS:

| | |
|---|---|
| Facility ID: | 82001532 |
| Source: | Petroleum & Coal Products |
| SAM Score: | 30 out of 48 |
| SAM Score Date: | 05/12/2004 |
| Township: | 02S |
| Range: | 11E |
| Section: | 29 |
| Quarter: | SW |
| Quarter/Quarter: | Not reported |
| **Facility Status:** | **Inactive - no actions taken to address contamination** |
| Pollutant(s): | Co; Tar |

FINDS:

Other Pertinent Environmental Activity Identified at Site

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

RCRA-LQG:

| | |
|---|---|
| Date form received by agency: | 04/24/2008 |
| Facility name: | HONEYWELL INTERNATIONAL INC |
| Facility address: | 1200 ZUG ISLAND RD<br>DETROIT, MI 48209 |
| EPA ID: | MID005517198 |
| Contact: | ROBERT O'BRIEN |
| Contact address: | 1200 ZUG ISLAND RD<br>DETROIT, MI 48209 |
| Contact country: | Not reported |
| Contact telephone: | (313) 842-4400 |
| Contact email: | Not reported |

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

| | |
|---|---|
| EPA Region: | 05 |
| Land type: | Private |
| Classification: | TSDF |
| Description: | Handler is engaged in the treatment, storage or disposal of hazardous waste |
| TSD commencement date: | Not reported |
| Classification: | Large Quantity Generator |
| Description: | Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | HONEYWELL INTERNATIONAL INC |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 12/01/1999 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | HONEYWELL INTERNATIONAL INC |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 12/01/1999 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:
Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: Yes

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Yes

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:
Date form received by agency: 02/09/2007
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

Date form received by agency: 03/10/2006
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2006
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

Date form received by agency: 05/20/2004
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2004
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

Date form received by agency: 08/12/2003
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

Date form received by agency: 09/17/2002
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2002
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2002
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Small Quantity Generator

Date form received by agency: 02/21/1990
Facility name: HONEYWELL INTERNATIONAL INC
Site name: ALLIED SIGNAL INC
Classification: Not a generator, verified

Date form received by agency: 11/17/1980
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

Date form received by agency: 10/02/1980
Facility name: HONEYWELL INTERNATIONAL INC
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2005

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 515.5

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 18635.4

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 13.2

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 24634

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

Waste code: D011
Waste name: SILVER
Amount (Lbs): 13.2

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 24620

Waste code: D023
Waste name: O-CRESOL
Amount (Lbs): 24620

Waste code: D024
Waste name: M-CRESOL
Amount (Lbs): 24620

Waste code: D025
Waste name: P-CRESOL
Amount (Lbs): 24640

Waste code: D026
Waste name: CRESOL
Amount (Lbs): 24620

Waste code: K147
Waste name: Not Defined
Amount (Lbs): 6829354

Waste code: P022
Waste name: CARBON DISULFIDE
Amount (Lbs): 17.6

Waste code: U019
Waste name: BENZENE (I,T)
Amount (Lbs): 66.7

Waste code: U051
Waste name: CREOSOTE
Amount (Lbs): 20

Waste code: U052
Waste name: CRESOL (CRESYLIC ACID)
Amount (Lbs): 20

Waste code: U080
Waste name: METHANE, DICHLORO-
Amount (Lbs): 20

Waste code: U151
Waste name: MERCURY
Amount (Lbs): 14

Waste code: U165
Waste name: NAPHTHALENE
Amount (Lbs): 2

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

Corrective Action Summary:
Event date: 03/31/1994
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Permits - Conditions
Date violation determined: 12/18/2001
Date achieved compliance: 02/21/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/18/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/12/2000
Date achieved compliance: 08/03/2001
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/12/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 09/05/1989
Date achieved compliance: 11/22/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/06/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 08/25/1988
Date achieved compliance: 12/02/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/14/1988
Enf. disposition status: Not reported

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/12/1988
Date achieved compliance: 12/21/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/28/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 10/18/2004
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/18/2001
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Permits - Conditions
Date achieved compliance: 02/21/2002
Evaluation lead agency: State

Evaluation date: 08/15/2000
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: 08/03/2001
Evaluation lead agency: State

Evaluation date: 01/30/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/05/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/22/1989
Evaluation lead agency: State

Evaluation date: 11/10/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

| | |
|---|---|
| Evaluation date: | 11/10/1988 |
| Evaluation: | FINANCIAL RECORD REVIEW |
| Area of violation: | Not reported |
| Date achieved compliance: | Not reported |
| Evaluation lead agency: | State |

| | |
|---|---|
| Evaluation date: | 08/25/1988 |
| Evaluation: | FINANCIAL RECORD REVIEW |
| Area of violation: | TSD - Financial Requirements |
| Date achieved compliance: | 12/02/1988 |
| Evaluation lead agency: | State |

| | |
|---|---|
| Evaluation date: | 08/12/1988 |
| Evaluation: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of violation: | TSD - General |
| Date achieved compliance: | 12/21/1988 |
| Evaluation lead agency: | State |

| | |
|---|---|
| Evaluation date: | 11/12/1987 |
| Evaluation: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of violation: | Not reported |
| Date achieved compliance: | Not reported |
| Evaluation lead agency: | State |

UST:

| | |
|---|---|
| Facility ID: | 00010188 |
| Facility Type: | CLOSED |
| Latitude: | 42.2918195400 |
| Longitude: | -83.1113936800 |
| Owner Name: | Allied Signal Inc |
| Owner Address: | 1200 Zug Island Rd |
| Owner City,St,Zip: | Detroit, MI 48209-2892 |
| Owner Country: | USA |
| Owner Contact: | Not reported |
| Owner Phone: | (313) 842-5498 |
| Contact: | K W BURROUGHS |
| Contact Phone: | (313) 842-4400 |
| Date of Collection: | Not reported |
| Accuracy: | 15 |
| Accuracy Value Unit: | METERS |
| Horizontal Datum: | NAD83 |
| Source: | STATE OF MICHIGAN |
| Point Line Area: | POINT |
| Desc Category: | Not reported |
| Method of Collection: | Interpolation-Map |

| | |
|---|---|
| Tank ID: | 1 |
| **Tank Status:** | **Removed from Ground** |
| Capacity: | 6000 |
| Install Date: | May 2 1959 |
| Product: | Gasoline |
| Remove Date: | Dec 1 1989 |
| Tank Release Detection: | Not reported |
| Pipe Realease Detection: | Not reported |
| Piping Material: | Unknown |
| Piping Type: | Not reported |
| Constr Material: | Asphalt Coated or Bare Steel |
| Impressed Device: | No |

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

Click this hyperlink while viewing on your computer to access additional TSCA detail in the EDR Site Report.

CORRACTS:

| | |
|---|---|
| EPA ID: | MID005517198 |
| EPA Region: | 05 |
| Area Name: | ENTIRE FACILITY |
| Actual Date: | 03/31/1994 |
| Action: | CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority |
| NAICS Code(s): | 325192<br>Cyclic Crude and Intermediate Manufacturing |
| Original schedule date: | Not reported |
| Schedule end date: | Not reported |

CERC-NFRAP:

| | |
|---|---|
| Site ID: | 0502318 |
| Federal Facility: | Not a Federal Facility |
| NPL Status: | Not on the NPL |
| Non NPL Status: | NFRAP |

CERCLIS-NFRAP Site Alias Name(s):

| | |
|---|---|
| Alias Name: | ALLIED CHEM CORP DETROIT TAR PLT |
| Alias Address: | 1200 ZUG ISLAND RD BOX 33950<br>DETROIT, MI 48209 |

Site Description: Not reported

CERCLIS-NFRAP Assessment History:

| | |
|---|---|
| Action: | DISCOVERY |
| Date Started: | Not reported |
| Date Completed: | 10/01/1980 |
| Priority Level: | Not reported |
| | |
| Action: | ARCHIVE SITE |
| Date Started: | Not reported |
| Date Completed: | 12/31/1986 |
| Priority Level: | Not reported |
| | |
| Action: | PRELIMINARY ASSESSMENT |
| Date Started: | Not reported |
| Date Completed: | 12/31/1986 |
| Priority Level: | NFRAP (No Futher Remedial Action Planned |

FTTS INSP:

| | |
|---|---|
| Inspection Number: | 20010111MIJAS 1 |
| Region: | 05 |
| Inspection Date: | 01/11/2001 |
| Inspector: | STRZALKA |
| Violation occurred: | No |
| Investigation Type: | General Product Review |
| Investigation Reason: | Neutral Scheme, State |
| Legislation Code: | FIFRA |
| Facility Function: | Producer |

**ALLIED CHEMICAL CORPORATION DETROIT TAR PLANT (Continued)** **1000248868**

HIST FTTS INSP:

| | |
|---|---|
| Inspection Number: | 20010111MIJAS 1 |
| Region: | 05 |
| Inspection Date: | Not reported |
| Inspector: | STRZALKA |
| Violation occurred: | No |
| Investigation Type: | General Product Review |
| Investigation Reason: | Neutral Scheme, State |
| Legislation Code: | FIFRA |
| Facility Function: | Producer |

---

**35 SSE 1/2-1 0.926 mi. 4891 ft.**

**MICHIGAN MARINE TERMINAL**
**250 MARION AVENUE**
**RIVER ROUGE, MI 48218**

**SHWS** **S108959551**
**N/A**

**Relative: Lower**

**Actual: 578 ft.**

SHWS:

| | |
|---|---|
| Facility ID: | 82002389 |
| Source: | Water Transportation |
| SAM Score: | 22 out of 48 |
| SAM Score Date: | 11/08/2005 |
| Township: | Not reported |
| Range: | Not reported |
| Section: | Not reported |
| Quarter: | Not reported |
| Quarter/Quarter: | Not reported |
| **Facility Status:** | **No status assigned** |
| Pollutant(s): | null |

---

**36 NE 1/2-1 0.948 mi. 5004 ft.**

**MICHIGAN SITE NETWORK**
**7731 MELVILLE**
**DETROIT, MI 48216**

**SHWS** **S105144849**
**BROWNFIELDS** **N/A**

**Relative: Equal**

**Actual: 586 ft.**

SHWS:

| | |
|---|---|
| Facility ID: | 82001586 |
| Source: | null |
| SAM Score: | 27 out of 48 |
| SAM Score Date: | 11/10/1998 |
| Township: | 2S |
| Range: | 11E |
| Section: | 26 |
| Quarter: | SE |
| Quarter/Quarter: | NW |
| **Facility Status:** | **Interim Response conducted - No further activities anticipated** |
| Pollutant(s): | Industrial waste; Solid wastes |

BROWNFIELD:

| | |
|---|---|
| Facility ID: | Not reported |
| Region: | 1 |

**MICHIGAN SITE NETWORK (Continued)** **S105144849**

| | |
|---|---|
| Status: | Closed |
| Properry Use: | Not reported |
| BEA: | No |
| Ernie Id Number: | 82001586 |
| Redevelop Status: | Not reported |
| Before Redevelopment: | Not reported |
| After Redevelopment: | Not reported |

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**37**
**SSE**
**1/2-1**
**0.963 mi.**
**5086 ft.**

**MICHIGAN MARINE TERMINAL**
**225 MARION STREET**
**RIVER ROUGE, MI 48218**

**FINDS** **1000436416**
**CORRACTS** **MID981192347**
**CERC-NFRAP**
**RCRA-NonGen**

**Relative:**
**Lower**

**Actual:**
**579 ft.**

FINDS:
Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

CORRACTS:

| | |
|---|---|
| EPA ID: | MID981192347 |
| EPA Region: | 05 |
| Area Name: | ENTIRE FACILITY |
| Actual Date: | 03/25/1993 |
| Action: | CA225IN - Stabilization Measures Evaluation, This facility is not, amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available |
| NAICS Code(s): | 71393<br>Marinas |
| Original schedule date: | Not reported |
| Schedule end date: | Not reported |

EPA ID: MID981192347

**MICHIGAN MARINE TERMINAL (Continued)** **1000436416**

EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 03/31/1993
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 71393
Marinas
Original schedule date: Not reported
Schedule end date: Not reported

CERC-NFRAP:
Site ID: 0507148
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: MIDWEST ENERGY INC
Alias Address: Not reported
MI
Site Description: Not reported

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 01/20/1993
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 03/17/1993
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 12/18/1995
Priority Level: Not reported

RCRA-NonGen:
Date form received by agency: 04/15/1999
Facility name: MICHIGAN MARINE TERMINAL INC
Facility address: 225 MARION
RIVER ROUGE, MI 48218
EPA ID: MID981192347
Mailing address: PO BOX 18247
RIVER ROUGE, MI 48218
Contact: DAVID ROBINSON
Contact address: 225 MARION
RIVER ROUGE, MI 48218
Contact country: Not reported
Contact telephone: (313) 841-6100
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

**MICHIGAN MARINE TERMINAL (Continued)** **1000436416**

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | CYTACKI WALTER S |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 10/11/1991 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | CYTACKI WALTER S |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 10/11/1991 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |
| Off-site waste receiver: | Commercial status unknown |

Universal Waste Summary:

| | |
|---|---|
| Waste type: | DEVICES CONTAINING ELEMENTAL MERCURY |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |

| | |
|---|---|
| Waste type: | MERCURY THERMOMETERS |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |

| | |
|---|---|
| Waste type: | MERCURY SWITCHES |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |

| | |
|---|---|
| Waste type: | Batteries |
| Accumulated waste on-site: | No |
| Generated waste on-site: | No |

**MICHIGAN MARINE TERMINAL (Continued)** **1000436416**

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:
Date form received by agency: 06/02/1986
Facility name: MICHIGAN MARINE TERMINAL INC
Classification: Not a generator, verified

Date form received by agency: 01/21/1986
Facility name: MICHIGAN MARINE TERMINAL INC
Classification: Not a generator, verified

Corrective Action Summary:
Event date: 03/25/1993
Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity because of a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available.

Event date: 03/31/1993
Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 07/24/2003
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

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**38**
**NNE**
**1/2-1**
**0.975 mi.**
**5146 ft.**

**GMC FISHER BODY DIV FLEETWOOD**
**WEST FORT WEST END AVE**
**DETROIT, MI 48209**

**FINDS** **1000114189**
**CORRACTS** **MID980700876**
**CERC-NFRAP**
**RCRA-NonGen**

**Relative:**
**Higher**

**Actual:**
**589 ft.**

FINDS:
Other Pertinent Environmental Activity Identified at Site

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource

**GMC FISHER BODY DIV FLEETWOOD (Continued)** **1000114189**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CORRACTS:

| | |
|---|---|
| EPA ID: | MID980700876 |
| EPA Region: | 05 |
| Area Name: | ENTIRE FACILITY |
| Actual Date: | 03/31/1993 |
| Action: | CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority |
| NAICS Code(s): | 336111<br>Automobile Manufacturing |
| Original schedule date: | Not reported |
| Schedule end date: | Not reported |

CERC-NFRAP:

| | |
|---|---|
| Site ID: | 0507219 |
| Federal Facility: | Not a Federal Facility |
| NPL Status: | Not on the NPL |
| Non NPL Status: | Deferred to RCRA |

Site Description: Not reported

CERCLIS-NFRAP Assessment History:

| | |
|---|---|
| Action: | DISCOVERY |
| Date Started: | Not reported |
| Date Completed: | 01/20/1993 |
| Priority Level: | Not reported |
| Action: | PRELIMINARY ASSESSMENT |
| Date Started: | Not reported |
| Date Completed: | 03/22/1993 |
| Priority Level: | Deferred to RCRA (Subtitle C) |
| Action: | ARCHIVE SITE |
| Date Started: | Not reported |
| Date Completed: | 12/18/1995 |
| Priority Level: | Not reported |

RCRA-NonGen:

| | |
|---|---|
| Date form received by agency: | 11/19/1980 |
| Facility name: | GENERAL MOTORS CORPORATION |
| Facility address: | W FORT AND WESTEND AVE<br>DETROIT, MI 48209 |
| EPA ID: | MID980700876 |
| Contact: | B NAPOLITAN |
| Contact address: | W FORT AND WESTEND AVE<br>DETROIT, MI 48209 |
| Contact country: | Not reported |
| Contact telephone: | (313) 554-7247 |
| Contact email: | Not reported |

**GMC FISHER BODY DIV FLEETWOOD (Continued)** **1000114189**

EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 11/20/1980
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 11/20/1980
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:
Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

**GMC FISHER BODY DIV FLEETWOOD (Continued)** **1000114189**

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:
Date form received by agency: 08/18/1980
Facility name: GENERAL MOTORS CORPORATION
Classification: Not a generator, verified

Corrective Action Summary:
Event date: 03/31/1993
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Violation Status: No violations found

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| DETROIT | S103594610 | ST. ANNE'S GATE PROPERTIES | 16TH / 18TH STREET OF LAFAYETTE | | SHWS, DEL SHWS |
| DETROIT | S108959566 | DETROIT PUBLIC SCHOOLS, CHATFIELD/BEARD | CHATFIELD/BEARD STREETS | 48209 | SHWS |
| DETROIT | 1004654459 | CROSLEY PLATING | 810/814 S. CROSSLEY PLATING | 48209 | CERCLIS, FINDS |
| DETROIT | S103594554 | MICH CON GAS CO STATION H | SOUTH GREEN AVE | 48209 | SHWS |
| DETROIT | S103085349 | AMBASSADOR BRIDGE CUSTOMS FAC | HOWARD AND 21ST STREET | 48209 | SHWS |
| DETROIT | S109149903 | CSX/NORFOLK & WESTERN RAILROAD SITE | JEFFERSON AND 12TH STREET | | SHWS |
| DETROIT | S108959556 | WORLD TRADE CENTER | LIVERNOIS | | SHWS |
| DETROIT | S108959578 | MARTIN LUTHER KING APARTMENTS | LOT 17, CHENE STREET | | SHWS |
| DETROIT | S109029764 | FORMER LARO COAL PROPERTY | LYCASTE / ST. JEAN STREETS | | SHWS |
| DETROIT | S108959577 | SPARETIME FAMILY ENTERTAINMENT CENTER | LYCASTE/JEFFERSON | | SHWS |
| DETROIT | S103095077 | UNISYS WORLD HQ DETROIT | ONE UNISYS PLACE | | SHWS, DEL SHWS |
| DETROIT | 1007097445 | MI DEPT/TRANSPORTATION | I-75 OVER ROUGE RIVER, DEARBOR | 48209 | RCRA-CESQG |
| DETROIT | S109171452 | JOY & SCHAEFER VACANT PROPERTY | 8800-8830 SCHAEFER HIGHWAY AND | | BEA |
| DETROIT | 1001127480 | MI DEPT/TRANSPORTATION | I-75 UNDER SOLVEY AVE WALKOVER | 48209 | FINDS, RCRA-NonGen |
| DETROIT | 1001127481 | MI DEPT/TRANSPORTATION | I-75 UNDER BEARD AVE WALKOVER | 48209 | FINDS, RCRA-CESQG |
| DETROIT | 1001127483 | MI DEPT/TRANSPORTATION | I-75 UNDER FERDINAND WALKOVER | 48209 | FINDS, RCRA-CESQG |
| DETROIT | 1001127484 | MI DEPT/TRANSPORTATION | I-75 UNDER HUBBARD ST WALKOVER | 48209 | FINDS, RCRA-CESQG |
| DETROIT | 1001127485 | MI DEPT/TRANSPORTATION | I-75 UNDER JUNCTION AVE | 48209 | FINDS, RCRA-NonGen |
| DETROIT | 1001127486 | MI DEPT/TRANSPORTATION | I-75 UNDER CLARK AVE | 48209 | FINDS, RCRA-NonGen |
| DETROIT | S108959568 | BRUSH PARK MULTI-SITE DEMOLITION | VARIOUS | | SHWS |
| DETROIT | S108959576 | SEVEN MILE AND GRATIOT DEVELOPMENT | VARIOUS ON SEVEN MILE AND MADDELEIN AVEN | | SHWS |
| MELVINDALE | S105144803 | MARATHON REFINERY WEATHERING PIT | 1300 SOUTH FORT | 48217 | SHWS, BROWNFIELDS, DEL SHWS |
| RIVER ROUGE | S103594564 | ZUG ISLAND GREAT LAKES STEEL | OFF W JEFFERSON | 48218 | SHWS |
| RIVER ROUGE | S108959565 | VACANT LAND - PLEASANT AVENUE | PLEASANT AVENUE | 48218 | SHWS |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 08/13/2008
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 07/28/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/30/2008
Date Data Arrived at EDR: 05/06/2008
Date Made Active in Reports: 06/09/2008
Number of Days to Update: 34

Source: EPA
Telephone: N/A
Last EDR Contact: 08/27/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 08/14/2008
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 07/28/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/09/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 34

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 09/19/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007
Date Data Arrived at EDR: 12/06/2007
Date Made Active in Reports: 02/20/2008
Number of Days to Update: 76

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/19/2008
Date Data Arrived at EDR: 08/29/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/25/2008
Date Data Arrived at EDR: 06/30/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 56

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/23/2008
Date Data Arrived at EDR: 07/29/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/23/2008
Date Data Arrived at EDR: 07/29/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 01/23/2008
Date Made Active in Reports: 03/17/2008
Number of Days to Update: 54

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/25/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/30/2008
Date Data Arrived at EDR: 07/15/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 41

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/15/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008
Date Data Arrived at EDR: 05/28/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 72

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/29/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 12/28/2007
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/23/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 08/25/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 07/15/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Semi-Annually

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/05/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 09/09/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 04/25/2008
Date Data Arrived at EDR: 06/12/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 06/18/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 45

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 07/13/2007
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 03/25/2008
Date Data Arrived at EDR: 04/17/2008
Date Made Active in Reports: 05/15/2008
Number of Days to Update: 28

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 09/22/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/28/2008
Date Data Arrived at EDR: 06/25/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 61

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/23/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/19/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 08/11/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/12/2008
Date Data Arrived at EDR: 07/18/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 38

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 07/12/2008
Date Data Arrived at EDR: 07/18/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 38

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/14/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/31/2008
Date Data Arrived at EDR: 08/13/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/14/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007
Date Data Arrived at EDR: 02/07/2008
Date Made Active in Reports: 03/17/2008
Number of Days to Update: 39

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 09/18/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/08/2008
Date Data Arrived at EDR: 08/05/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 20

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/29/2008
Date Data Arrived at EDR: 07/31/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 25

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/31/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 47

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/06/2007
Date Made Active in Reports: 04/13/2007
Number of Days to Update: 38

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/12/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Biennially

SCRD DRYCLEANERS: State Coalition for Redediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 09/08/2008
Date Data Arrived at EDR: 09/10/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/25/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Varies

**STATE AND LOCAL RECORDS**

SHWS: Contaminated Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 08/18/2008
Date Data Arrived at EDR: 08/20/2008
Date Made Active in Reports: 09/04/2008
Number of Days to Update: 15

Source: Department of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 08/20/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Semi-Annually

DEL SHWS: Delisted List of Contaminated Sites

Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does not support it's listing or the site no longer meets criteria specified in rules.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/20/2008
Date Made Active in Reports: 09/04/2008
Number of Days to Update: 15

Source: Department of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

SWF/LF: Solid Waste Facilities Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/23/2008
Date Data Arrived at EDR: 07/24/2008
Date Made Active in Reports: 08/20/2008
Number of Days to Update: 27

Source: Department of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Semi-Annually

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997
Date Data Arrived at EDR: 02/28/2003
Date Made Active in Reports: 03/06/2003
Number of Days to Update: 6

Source: Department of Environmental Quality
Telephone: 517-335-4034
Last EDR Contact: 02/28/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/08/2008
Date Data Arrived at EDR: 09/09/2008
Date Made Active in Reports: 09/19/2008
Number of Days to Update: 10

Source: Department of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 09/09/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Annually

UST: Underground Storage Tank Facility List

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/09/2008
Date Data Arrived at EDR: 06/11/2008
Date Made Active in Reports: 07/14/2008
Number of Days to Update: 33

Source: Department of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 09/09/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Annually

LIENS: Lien List

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC * 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

Date of Government Version: 05/12/2008
Date Data Arrived at EDR: 05/27/2008
Date Made Active in Reports: 06/13/2008
Number of Days to Update: 17

Source: Department of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 08/14/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Varies

AST: Aboveground Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 06/23/2008
Date Data Arrived at EDR: 06/30/2008
Date Made Active in Reports: 08/18/2008
Number of Days to Update: 49

Source: Department of Environmental Quality
Telephone: 517-373-8168
Last EDR Contact: 09/08/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: No Update Planned

PEAS: Pollution Emergency Alerting System
Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

Date of Government Version: 07/15/2008
Date Data Arrived at EDR: 07/18/2008
Date Made Active in Reports: 08/20/2008
Number of Days to Update: 33

Source: Department of Environmental Quality
Telephone: 517-373-8427
Last EDR Contact: 07/14/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Quarterly

AUL: Engineering and Institutional Controls
A listing of sites with institutional and/or engineering controls in place.

Date of Government Version: 07/28/2008
Date Data Arrived at EDR: 08/04/2008
Date Made Active in Reports: 08/20/2008
Number of Days to Update: 16

Source: Department of Environmental Quality
Telephone: 517-373-4828
Last EDR Contact: 09/22/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments
A listing of drycleaning facilities in Michigan.

Date of Government Version: 07/17/2008
Date Data Arrived at EDR: 09/02/2008
Date Made Active in Reports: 09/19/2008
Number of Days to Update: 17

Source: Department of Environmental Quality
Telephone: 517-335-4586
Last EDR Contact: 08/11/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Varies

BROWNFIELDS: Brownfields and USTfield Site Database
All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 09/02/2008
Date Data Arrived at EDR: 09/02/2008
Date Made Active in Reports: 09/19/2008
Number of Days to Update: 17

Source: Department of Environmental Quality
Telephone: 517-373-4805
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations
A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detrot Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 05/01/2007
Number of Days to Update: 21

Source: Economic Development Corporation
Telephone: 888-522-0103
Last EDR Contact: 09/09/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Varies

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab locations.

Date of Government Version: 05/05/2008
Date Data Arrived at EDR: 05/21/2008
Date Made Active in Reports: 06/13/2008
Number of Days to Update: 23

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 08/22/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

NPDES: List of Active NPDES Permits
General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 07/29/2008
Date Data Arrived at EDR: 07/31/2008
Date Made Active in Reports: 08/20/2008
Number of Days to Update: 20

Source: Department of Environmental Quality
Telephone: 517-241-1300
Last EDR Contact: 07/31/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data
Permit and emissions inventory data.

Date of Government Version: 05/22/2007
Date Data Arrived at EDR: 10/19/2007
Date Made Active in Reports: 11/05/2007
Number of Days to Update: 17

Source: Department of Environmental Quality
Telephone: 517-373-7074
Last EDR Contact: 07/18/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE
A Baseline Environmental Assessment (BEA) allows people to purchase or begin operating at a facility without being held liable for existing contamination. BEAs are used to gather enough information about the property being transferred so that existing contamination can be distinguished from any new releases that might occur after the new owner or operator takes over the property.

Date of Government Version: 09/11/2008
Date Data Arrived at EDR: 09/11/2008
Date Made Active in Reports: 09/19/2008
Number of Days to Update: 8

Source: DEPT. OF ENVIRONMENTAL QUALITY
Telephone: 517-373-9541
Last EDR Contact: 09/08/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Semi-Annually

**TRIBAL RECORDS**

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/25/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/22/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 18

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 07/11/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 28

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/17/2008
Date Data Arrived at EDR: 03/27/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 40

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/05/2008
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/17/2008
Date Data Arrived at EDR: 03/27/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 40

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 03/20/2008
Number of Days to Update: 6

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/21/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 5

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
A listing of underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 03/20/2008
Number of Days to Update: 6

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 03/17/2008
Date Data Arrived at EDR: 03/27/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 40

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 12/21/2007
Date Data Arrived at EDR: 12/21/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 34

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 09/05/2008
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/14/2007
Date Made Active in Reports: 07/05/2007
Number of Days to Update: 21

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 08/21/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 5

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 07/11/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 08/22/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 18

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

**EDR PROPRIETARY RECORDS**

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 06/15/2007
Date Made Active in Reports: 08/20/2007
Number of Days to Update: 66

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 09/12/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 09/30/2007
Date Data Arrived at EDR: 12/04/2007
Date Made Active in Reports: 12/31/2007
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/23/2008
Date Data Arrived at EDR: 08/28/2008
Date Made Active in Reports: 09/11/2008
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/28/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 12/21/2007
Date Made Active in Reports: 01/10/2008
Number of Days to Update: 20

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/08/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 06/03/2008
Date Made Active in Reports: 08/07/2008
Number of Days to Update: 65

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/08/2008
Number of Days to Update: 17

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/22/2008
Next Scheduled EDR Contact: 10/06/2008
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes
Source: Bureau of REgulatory Services
Telephone: 517-373-8300

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 517-241-2254

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

CHEMSERVE
9505 COPLAND STREET
DETROIT, MI 48209

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 42.28810 - 42˚ 17' 17.2'' |
| Longitude (West): | 83.1291 - 83˚ 7' 44.7'' |
| Universal Tranverse Mercator: | Zone 17 |
| UTM X (Meters): | 324461.8 |
| UTM Y (Meters): | 4683745.5 |
| Elevation: | 586 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 42083-C2 DEARBORN, MI |
| Most Recent Revision: | 1983 |
| | |
| East Map: | 42083-C1 DETROIT, MI |
| Most Recent Revision: | 1980 |

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

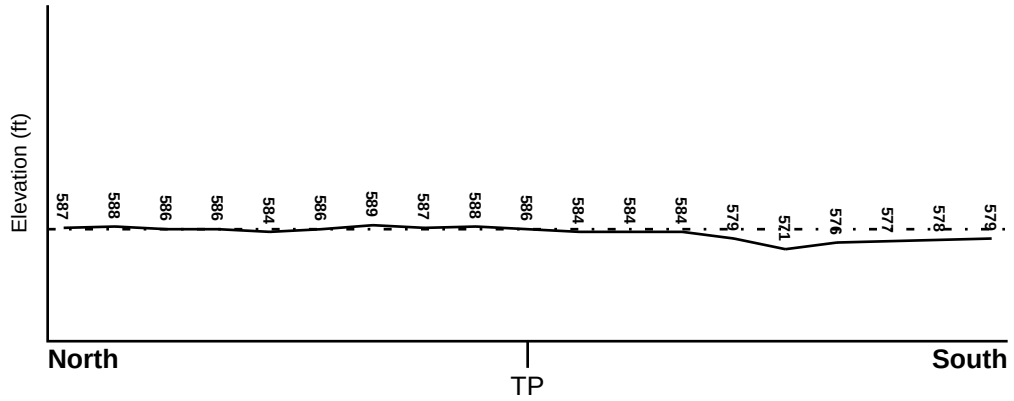
**TOPOGRAPHIC INFORMATION**

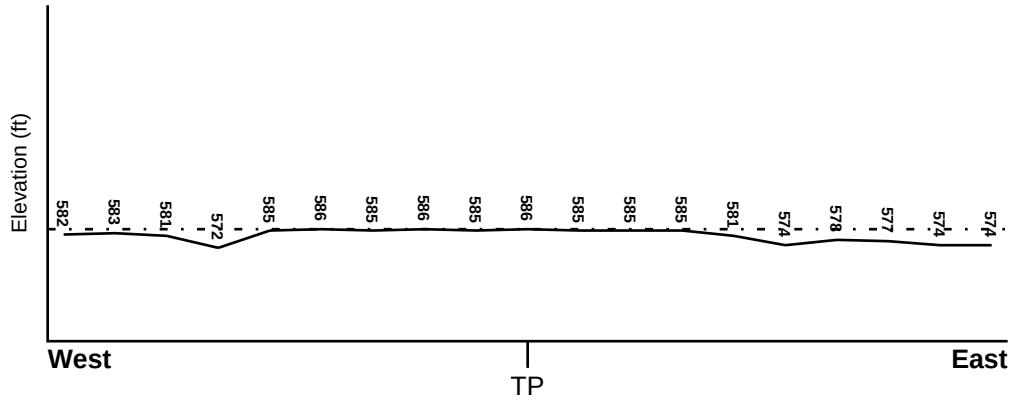
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

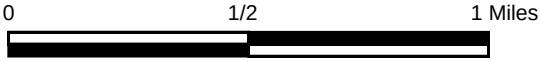
General Topographic Gradient: General South

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




**Target Property Elevation: 586 ft.**




Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE**

| Target Property County | FEMA Flood Electronic Data |
|---|---|
| WAYNE, MI | YES - refer to the Overview Map and Detail Map |

| | |
|---|---|
| Flood Plain Panel at Target Property: | 2602220045B |
| Additional Panels in search area: | 2602200010D<br>2602390001B |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| DEARBORN | Not Available |

**HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

***Site-Specific Hydrogeological Data*:***

| | |
|---|---|
| Search Radius: | 1.25 miles |
| Status: | Not found |

**AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| 1 | 1/4 - 1/2 Mile NNW | ESE |
| 2 | 1/2 - 1 Mile NNW | WSW |

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

**GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

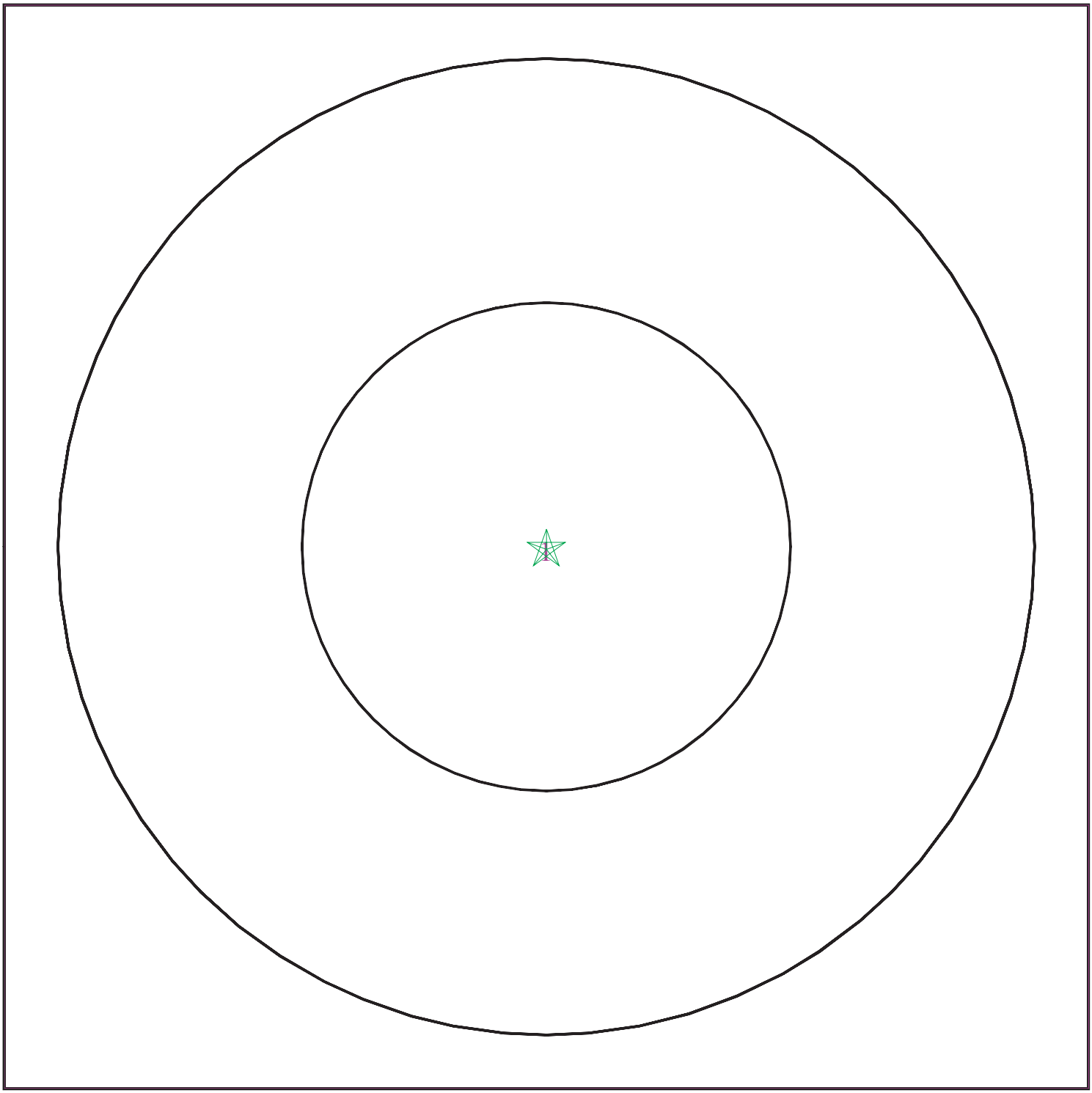
| | |
|---|---|
| Era: | Paleozoic |
| System: | Devonian |
| Series: | Middle Devonian |
| Code: | D2 *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 2325154.2s



Target Property

SSURGO Soil

Water

0 1/16 1/8 1/4 Miles

N

| | | | |
|---|---|---|---|
| SITE NAME: | ChemServe | CLIENT: | Environmental Quality Mgmt. |
| ADDRESS: | 9505 Copland Street<br>Detroit MI 48209 | CONTACT: | John Miller |
| | | INQUIRY #: | 2325154.2s |
| LAT/LONG: | 42.2881 / 83.1291 | DATE: | September 24, 2008 8:12 am |

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# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

**Soil Map ID: 1**

Soil Component Name: Area not mapped

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

**LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

**WELL SEARCH DISTANCE INFORMATION**

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No Wells Found | | |

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No Wells Found | | |

# PHYSICAL SETTING SOURCE MAP - 2325154.2s

County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

| | |
|---|---|
| SITE NAME: ChemServe<br>ADDRESS: 9505 Copland Street<br>Detroit MI 48209<br>LAT/LONG: 42.2881 / 83.1291 | CLIENT: Environmental Quality Mgmt.<br>CONTACT: John Miller<br>INQUIRY #: 2325154.2s<br>DATE: September 24, 2008 8:12 am |

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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| Map ID<br>Direction<br>Distance<br>Elevation | | | Database | EDR ID Number |
|---|---|---|---|---|
| **1**<br>**NNW**<br>**1/4 - 1/2 Mile**<br>**Lower** | Site ID:<br>Groundwater Flow:<br>Shallowest Water Table Depth:<br>Deepest Water Table Depth:<br>Average Water Table Depth:<br>Date: | 826191<br>ESE<br>2<br>8<br>Not Reported<br>11/01/1993 | **AQUIFLOW** | **35381** |
| **2**<br>**NNW**<br>**1/2 - 1 Mile**<br>**Higher** | Site ID:<br>Groundwater Flow:<br>Shallowest Water Table Depth:<br>Deepest Water Table Depth:<br>Average Water Table Depth:<br>Date: | 821071<br>WSW<br>5.10<br>7.40<br>Not Reported<br>02/21/1995 | **AQUIFLOW** | **35341** |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

Federal EPA Radon Zone for WAYNE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for WAYNE COUNTY, MI

Number of sites tested: 159

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 0.853 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | 1.398 pCi/L | 97% | 3% | 0% |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 517-241-2254

## HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data
Source: Department of Environmental Quality
Telephone: 517-335-9218

## OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells
Source: Michigan Department of Natural Resources
Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

RADON

State Database: MI Radon
Source: Department of Environmental Quality
Telephone: 517-335-9551
Radon Test Results

Michigan Radon Test Results
Source: Department of Environmental Quality
Telephone: 517-335-8037
These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

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# The EDR Environmental LienSearch™ Report

**9505 COPLAND ST**
**WAYNE**
**DETROIT, MI 48209-2642**

**Project Number: 2325154.7S**

**Index Date: 08/29/2008**

EDR® Environmental Data Resources Inc

AMERISTAR
INFORMATION NETWORK, LTD.

## The Standard in Environmental Risk Information


440 Wheelers Farm Road
Milford, Connecticut 06461

**Nationwide Customer Service**

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

# EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EDR Environmental LienSearch™ Report

## TARGET PROPERTY INFORMATION

### ADDRESS

| | |
|---|---|
| CLIENT REF | 2325154.7S |
| Site Address | 9505 COPLAND ST. |
| Site CSZ | Detroit, MI, 48209-2642 |

### RESEARCH SOURCE

Sources: **Wayne County**

### DEED INFORMATION

| | |
|---|---|
| Type of Deed: | Warranty Deed |
| Title is vested in: | Chem-Serve Corporation |
| Title received from: | Western Storage & Warehouse, Inc. |
| Deed Dated: | 11/30/1972 |
| Deed Recorded: | 12/11/1972 |
| Book: | 18279 |
| Page: | 215 |

### LEGAL DESCRIPTION

Description: LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MICHIGAN DESCRIBED AS: PARCEL 1; CONTAINING ONE ACRE OF LAND, MORE OR LESS
PARCEL 2; SAME BEING THREE ACRES OF LAND; MORE FULL DESCRIBED IN VOLUME 18279, PAGE 216.

Assessor's Parcel Number: 20-005897

### ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If yes:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Comments:

### OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL's: Found ☐ Not Found ☒

# EDR Environmental LienSearch™ Report

**Copy of Deed and any instruments.**

20/5897
5900

F770732

Lawyers Title Insurance Corporation

Form 563 6-71

WARRANTY DEED—CORPORATION—Statutory Form
C.L. 1948, 565.151 M.S.A. 26.571

KNOW ALL MEN BY THESE PRESENTS: That Western Storage & Warehouse, Inc., a Michigan Corporation

whose address is 2410 Vinewood, Detroit, Michigan 48216

LI 18279 PA 215

Conveys and Warrants to Chem-Serve Corporation, a Michigan Corporation

whose address is 125 S. Junction, Detroit, Michigan 48209

the following described premises situated in the City of Detroit

County of Wayne and State of Michigan, to-wit:

F770732

SEE RIDER ATTACHED FOR DESCRIPTION
Lands in Private Claims 340 and 405

together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining,

for the full consideration of ---$102,500.00----------

subject to restrictions and easements of record

RECORDED DEC 11 1972 AT 8:58 O'CLOCK
BERNARD J. YOUNGBLOOD, Register of Deeds
WAYNE COUNTY, MICHIGAN 48226

Dated this 30th day of November 1972

Witnesses:

Y. Gladys Baranian

George B. Bryce

Signed and Sealed:

Western Storage & Warehouse, Inc. (L.S.)
a Michigan Corporation

By Joseph A. Lapansee
Joseph A. Lapansee

Its President

Raymond F. Radgin
Raymond F. Radgin

Its Secretary

STATE OF MICHIGAN
COUNTY OF Wayne } ss.

The foregoing instrument was acknowledged before me this 30th day of November 1972

(1) by Joseph A. Lapansee & Raymond F. Radgin
(2) President and Secretary
(3) of Western Storage & Warehouse, Inc.
(4) a Michigan Corporation

Corporation on behalf of the said corporation.

My commission expires EDWARD C. WASHNOCK Notary Public, Oakland County, Mich. Acting in Wayne County, Mich. My Commission Expires 7-28-76

Edward C. Washnock
Notary Public County, Michigan

Note: Insert at (1) name(s) of officer(s) (2) title(s) of officers(s) (3) name of corporation (4) state of incorporation

Instrument Drafted by Donald F. Carney

Business Address 300 First Federal Bldg. Detroit, Mich. 48226

This is to certify that there are no tax liens or titles on the property and that there are no tax liens or titles on the property and that County Treasurer's Certificate previous to date of this instrument EXCEPT

No. 1264

DEC 07 1972

Wayne County Treasurer
Clerk

City Treasurer's Certificate

No. 192 DEC 7 1972

City Treasurer of the within described property are paid or [illegible] Sec. 27 of City Charter as amended [illegible] Current City and Special taxes excluded.

Recording Fee 2.50

State Transfer Tax $112.75

When recorded return to E. BEN BRYCE CITY WEST REGION, NATIONAL BANK OF DETROIT, BOX 116, DETROIT, MICH. 48232

Send subsequent tax bills GRANTEE to GRANTEE 9505 COPELAND, DETROIT, MICH.

Tax Parcel #

OF 771262 00001.00 II

L18279 PA216

Rider - to Warranty Deed dated the 30th day of November, 1972 between WESTERN STORAGE & WAREHOUSE, INC., A Michigan Corporation, Grantor to CHEM-SERVE CORPORATION, a Michigan Corporation, Grantee.

DESCRIPTION OF REAL ESTATE

Land in the City of Detroit, Wayne County, Michigan described as:

PARCEL 1 - Beginning at a stake distant north 28 degrees 6 minutes west 69.24 feet from a point on the southerly line of Private Claim 405, said point being distant north 61 degrees 52 minutes east 1,377.47 feet from the intersection of the easterly line of the Toledo Canada Southern and Detroit Railway right-of-way with said southerly line of Private Claim 405; thence south 67 degrees 49 minutes west 41.47 feet to a stake; thence on a curve to the right, whose radius is 430 feet and chord of which is north 75 degrees 36 minutes west and the distance in said chord is 328.40 feet to a stake; thence north 61 degrees 56 minutes east 283.45 feet to a stake; thence south 28 degrees 6 minutes east 226.0 feet to the point of beginning, containing one acre of land, more or less.

PARCEL 2 - Part of Private Claims 340 and 405 described as: Beginning at the intersection of the line between said Private Claims 340 and 405 and the easterly right-of-way line of the Michigan Central Railroad Delta Yard; thence south 27 degrees 04 minutes west 134.4 feet along said right-of-way line; thence southeasterly 253.5 feet on a curve to the left having a radius of 430 feet; thence north 61 degrees 53 minutes east 333.75 feet to the easterly line of a private street; thence north 22 degrees 07 minutes west (described) 440.0 feet; thence north 28 degrees 07 minutes west (measured) 440.0 feet along the easterly line of said private street produced; thence south 61 degrees 53 minutes west 92.02 feet to the before mentioned right-of-way line; thence south 27 degrees 04 minutes west 201.01 feet along said right-of-way line to the point of beginning; same being three acres of land.

Undersigned certify that the above described property is conveyed by deed dated the 30th day of November, 1972.

WESTERN STORAGE & WAREHOUSE, INC.

x Joseph A. Lapansee
Joseph A. Lapansee, President

x Raymond F. Radgin
Raymond F. Radgin, Secretary

x _____

REAL ESTATE TRANSFER TAX
56.70

# APPENDIX B

# AERIAL PHOTOGRAPHS, TOPOGRAPHIC MAPS, SANBORN MAPS, CITY DIRECTORY AND CHAIN OF OWNERSHIP REPORT

**ChemServe**
9505 Copland Street
Detroit, MI 48209

Inquiry Number: 2325154.5
September 24, 2008

# The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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## Date EDR Searched Historical Sources:

Aerial Photography September 24, 2008

## Target Property:

9505 Copland Street

Detroit, MI 48209

| ***Year*** | ***Scale*** | ***Details*** | ***Source*** |
|---|---|---|---|
| 1937 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1937 | AAA |
| 1949 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1949 | Detroit Edison |
| 1957 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1957 | CSS |
| 1961 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1961 | Detroit Edison |
| 1972 | Aerial Photograph. Scale: 1"=600' | Flight Year: 1972 | ASCS |
| 1985 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1985 | SEMCOG |
| 1994 | Aerial Photograph. Scale: 1"=600' | Flight Year: 1994 | NAPP |
| 2000 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2000 | SEMCOG |
| 2005 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2005 | EDR |

INQUIRY #: 2325154.5
YEAR: 1937
= 500'
N

INQUIRY #: 2325154.5
YEAR: 1949
= 500'
N
EDR Environmental Data Resources Inc

**INQUIRY #:** 2325154.5

**YEAR:** 1957

= 500'

N

EDR Environmental Data Resources Inc

INQUIRY #: 2325154.5
YEAR: 1961
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 2325154.5
YEAR: 1972
= 600'
N

INQUIRY #: 2325154.5
YEAR: 1985
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 2325154.5
YEAR: 1994
= 600'
N

INQUIRY #: 2325154.5
YEAR: 2000
= 500'
N

INQUIRY #: 2325154.5
YEAR: 2005
= 500'
N
EDR Environmental Data Resources Inc

**ChemServe**
9505 Copland Street
Detroit, MI 48209

Inquiry Number: 2325154.4
September 24, 2008

# The EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

# EDR Historical Topographic Map Report

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***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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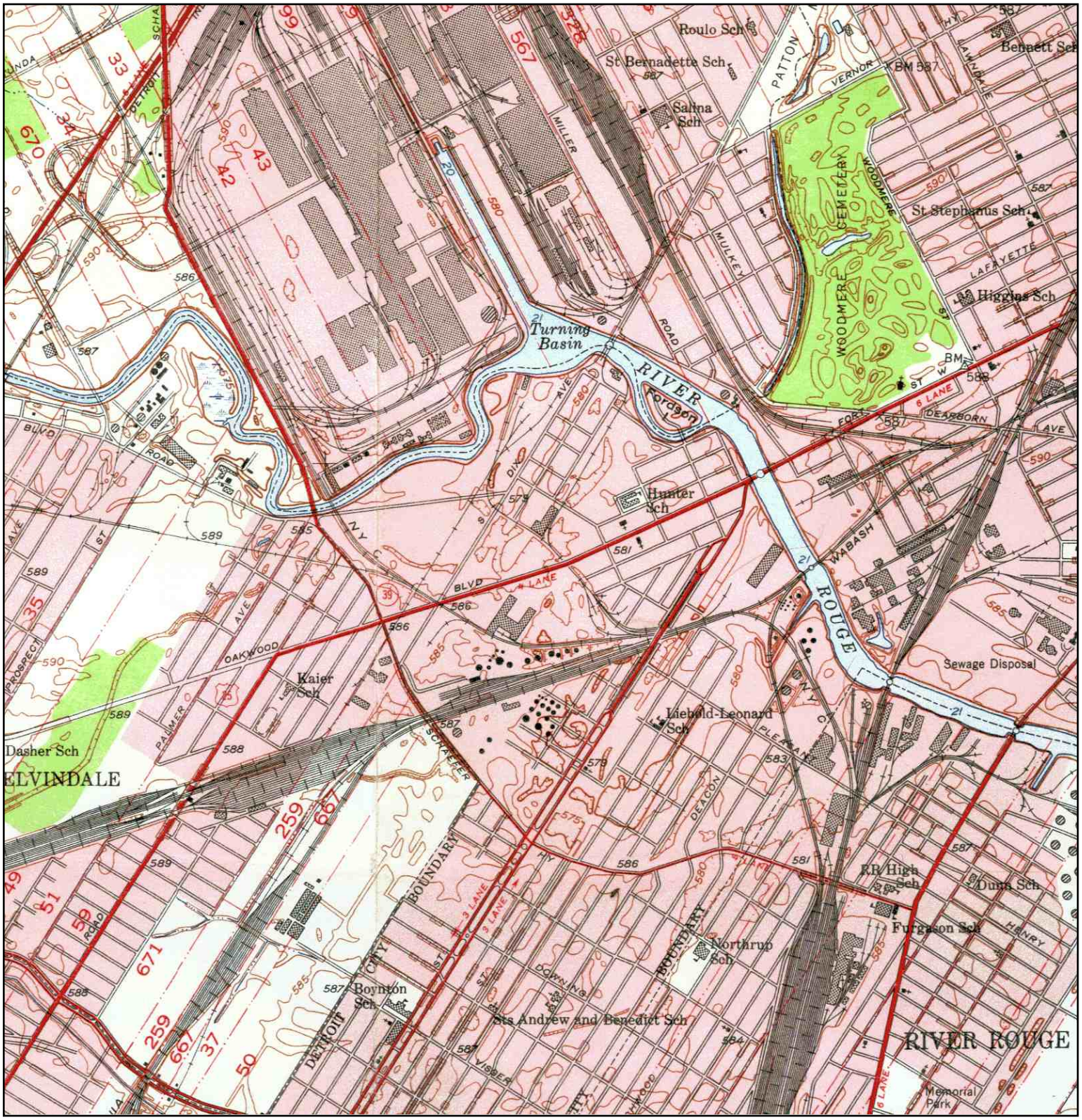
# Historical Topographic Map

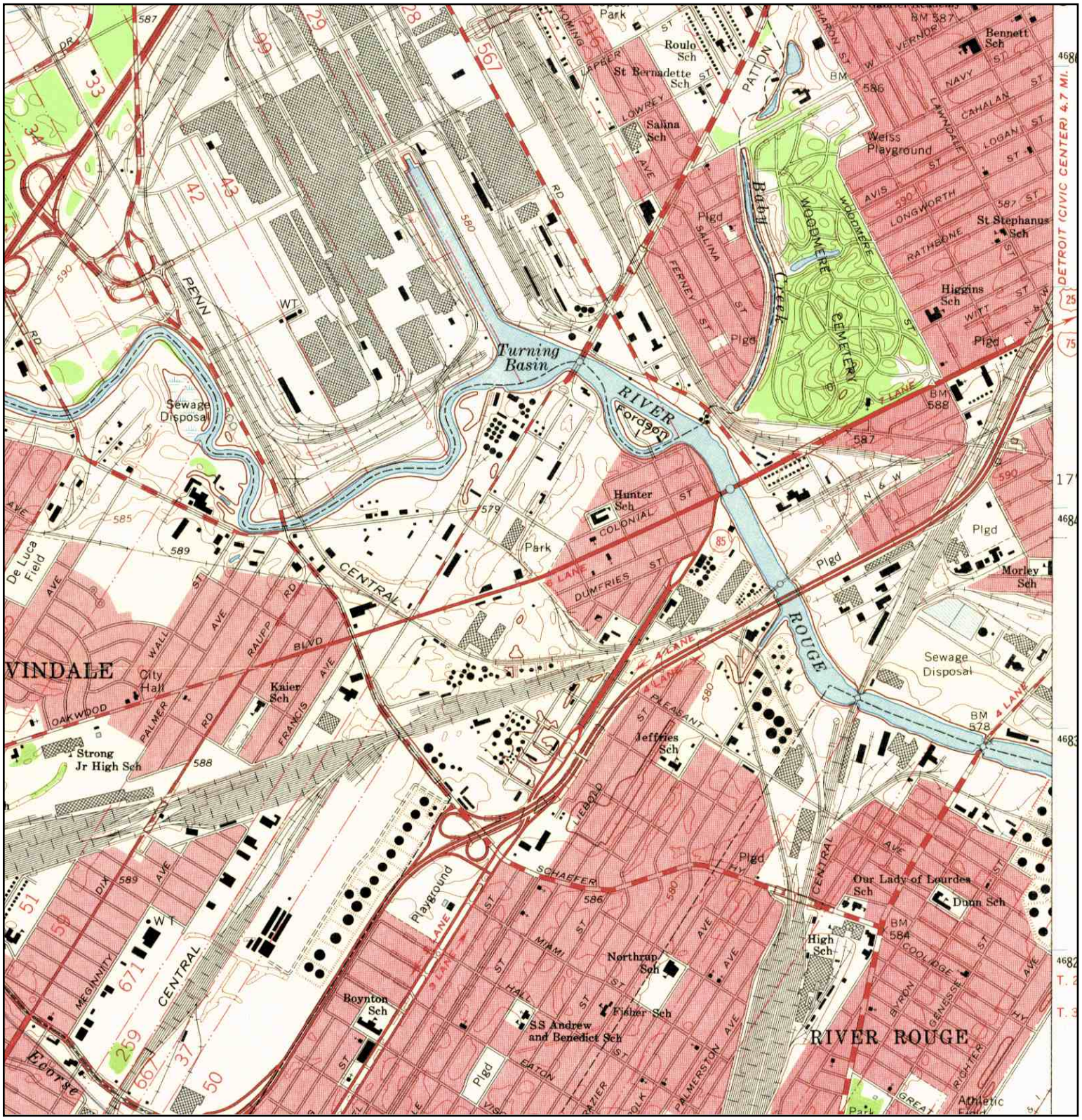
| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: DETROIT<br>MAP YEAR: 1905<br><br>SERIES: 15<br>SCALE: 1:62500 | SITE NAME: ChemServe<br>ADDRESS: 9505 Copland Street<br>Detroit, MI 48209<br>LAT/LONG: 42.2881 / 83.1291 | CLIENT: Environmental Quality Mgmt.<br>CONTACT: John Miller<br>INQUIRY#: 2325154.4<br>RESEARCH DATE: 09/24/2008 |

# Historical Topographic Map



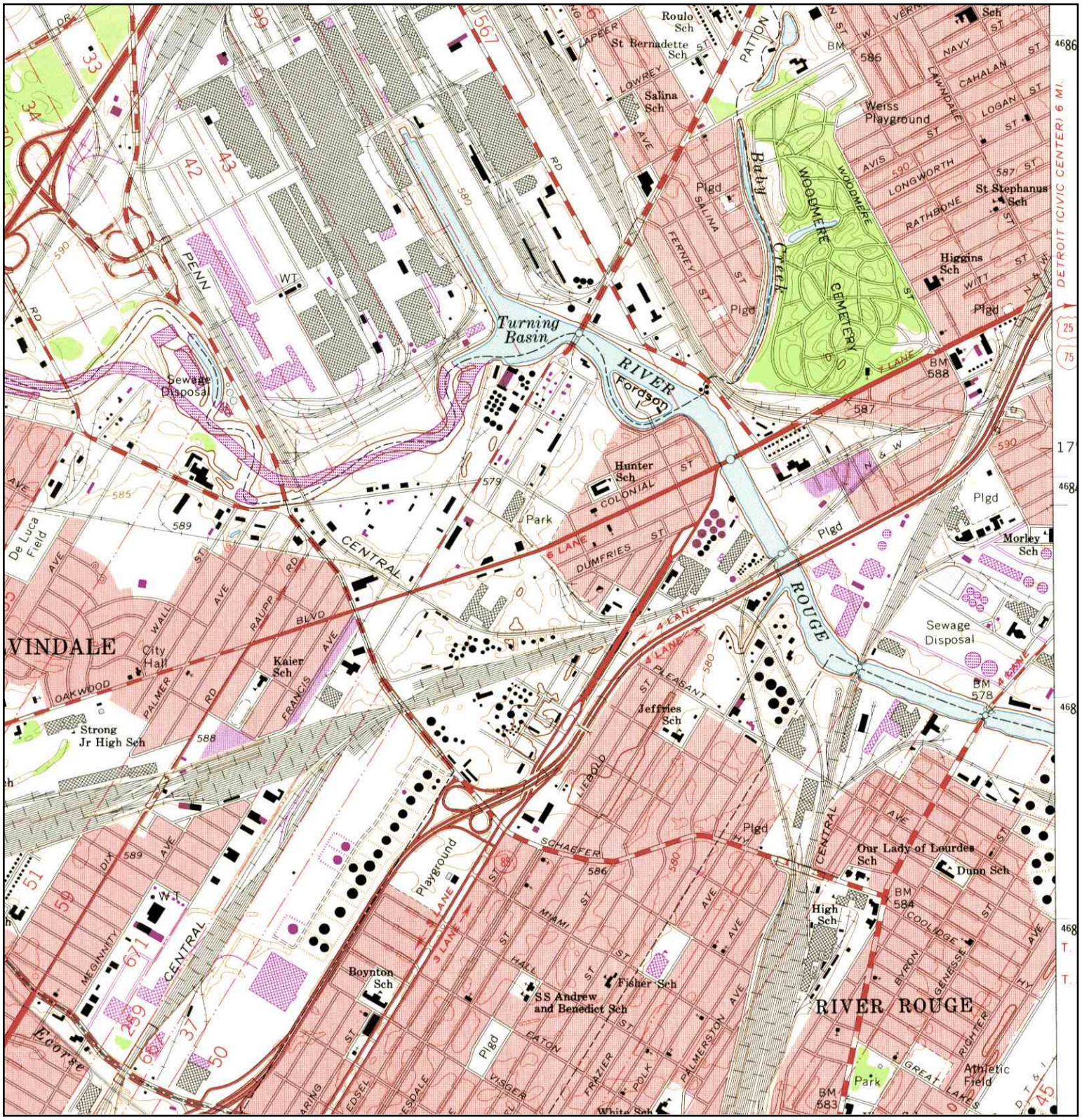

| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: DETROIT VICINITY SOUTH NW<br>MAP YEAR: 1952<br>SERIES: 7.5<br>SCALE: 1:24000 | SITE NAME: ChemServe<br>ADDRESS: 9505 Copland Street<br>Detroit, MI 48209<br>LAT/LONG: 42.2881 / 83.1291 | CLIENT: Environmental Quality Mgmt.<br>CONTACT: John Miller<br>INQUIRY#: 2325154.4<br>RESEARCH DATE: 09/24/2008 |

# Historical Topographic Map



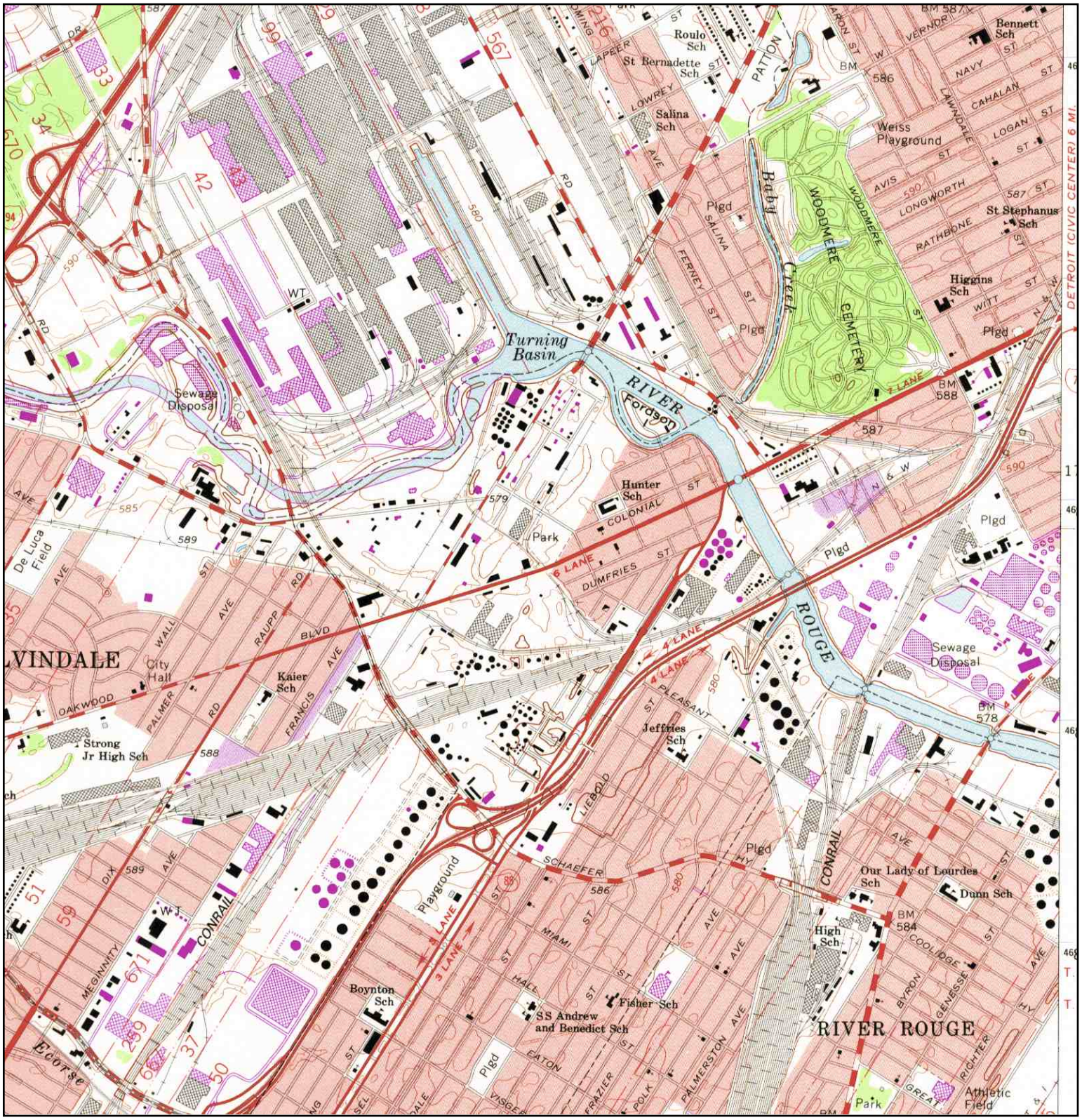

| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: DEARBORN<br>MAP YEAR: 1968<br><br>SERIES: 7.5<br>SCALE: 1:24000 | SITE NAME: ChemServe<br>ADDRESS: 9505 Copland Street<br>Detroit, MI 48209<br>LAT/LONG: 42.2881 / 83.1291 | CLIENT: Environmental Quality Mgmt.<br>CONTACT: John Miller<br>INQUIRY#: 2325154.4<br>RESEARCH DATE: 09/24/2008 |

# Historical Topographic Map




| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: DEARBORN<br>MAP YEAR: 1973<br>PHOTOREVISED FROM:1968<br>SERIES: 7.5<br>SCALE: 1:24000 | SITE NAME: ChemServe<br>ADDRESS: 9505 Copland Street<br>Detroit, MI 48209<br>LAT/LONG: 42.2881 / 83.1291 | CLIENT: Environmental Quality Mgmt.<br>CONTACT: John Miller<br>INQUIRY#: 2325154.4<br>RESEARCH DATE: 09/24/2008 |

# Historical Topographic Map




| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: DEARBORN<br>MAP YEAR: 1983<br>PHOTOREVISED FROM:1968<br>SERIES: 7.5<br>SCALE: 1:24000 | SITE NAME: ChemServe<br>ADDRESS: 9505 Copland Street<br>Detroit, MI 48209<br>LAT/LONG: 42.2881 / 83.1291 | CLIENT: Environmental Quality Mgmt.<br>CONTACT: John Miller<br>INQUIRY#: 2325154.4<br>RESEARCH DATE: 09/24/2008 |

**ChemServe**
9505 Copland Street
Detroit, MI 48209

Inquiry Number: 2325154.3s
September 24, 2008

# Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

# Certified Sanborn® Map Report

9/24/08

**Site Name:**
ChemServe
9505 Copland Street
Detroit, MI 48209

**Client Name:**
Environmental Quality Mgmt.
1800 Carillon Boulevard
Cincinnati, OH 45240

EDR Inquiry # 2325154.3s

Contact: John Miller

EDR® Environmental Data Resources Inc

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## *Certified Sanborn Results:*

**Site Name:** ChemServe
**Address:** 9505 Copland Street
**City, State, Zip:** Detroit, MI 48209
**Cross Street:**
**P.O. #** 030228.0103
**Project:** Chemserve
**Certification #** 60A4-4EA4-B448

**Maps Identified** - Number of maps indicated within "( )"

| | |
|---|---|
| 1992 (2) | 1950 (2) |
| 1989 (1) | 1923 (2) |
| 1978 (2) | |
| 1961 (2) | |
| 1957 (2) | |
| 1952 (2) | |

Total Maps: 15

Sanborn® Library search results
Certification # 60A4-4EA4-B448

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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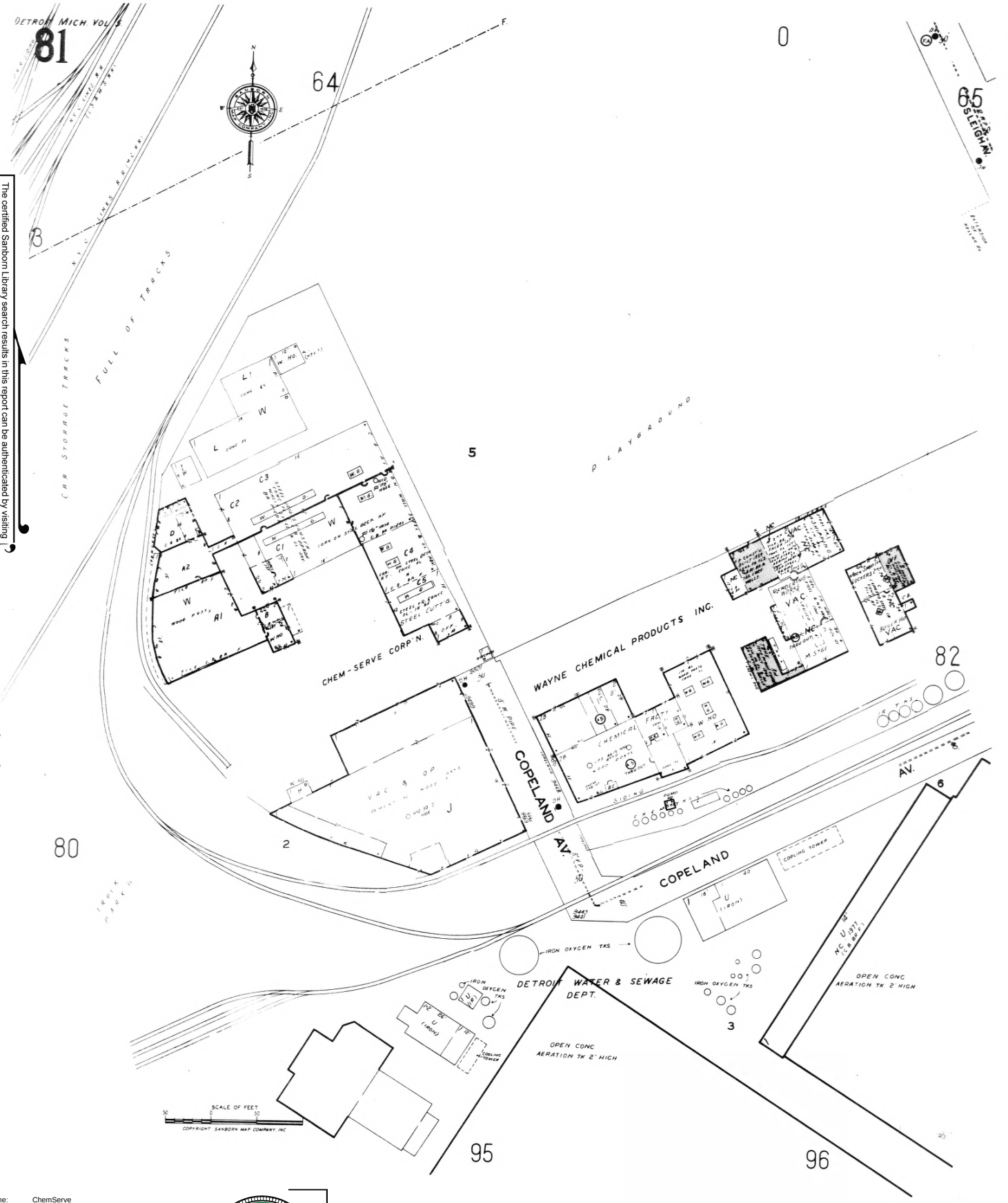


| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |

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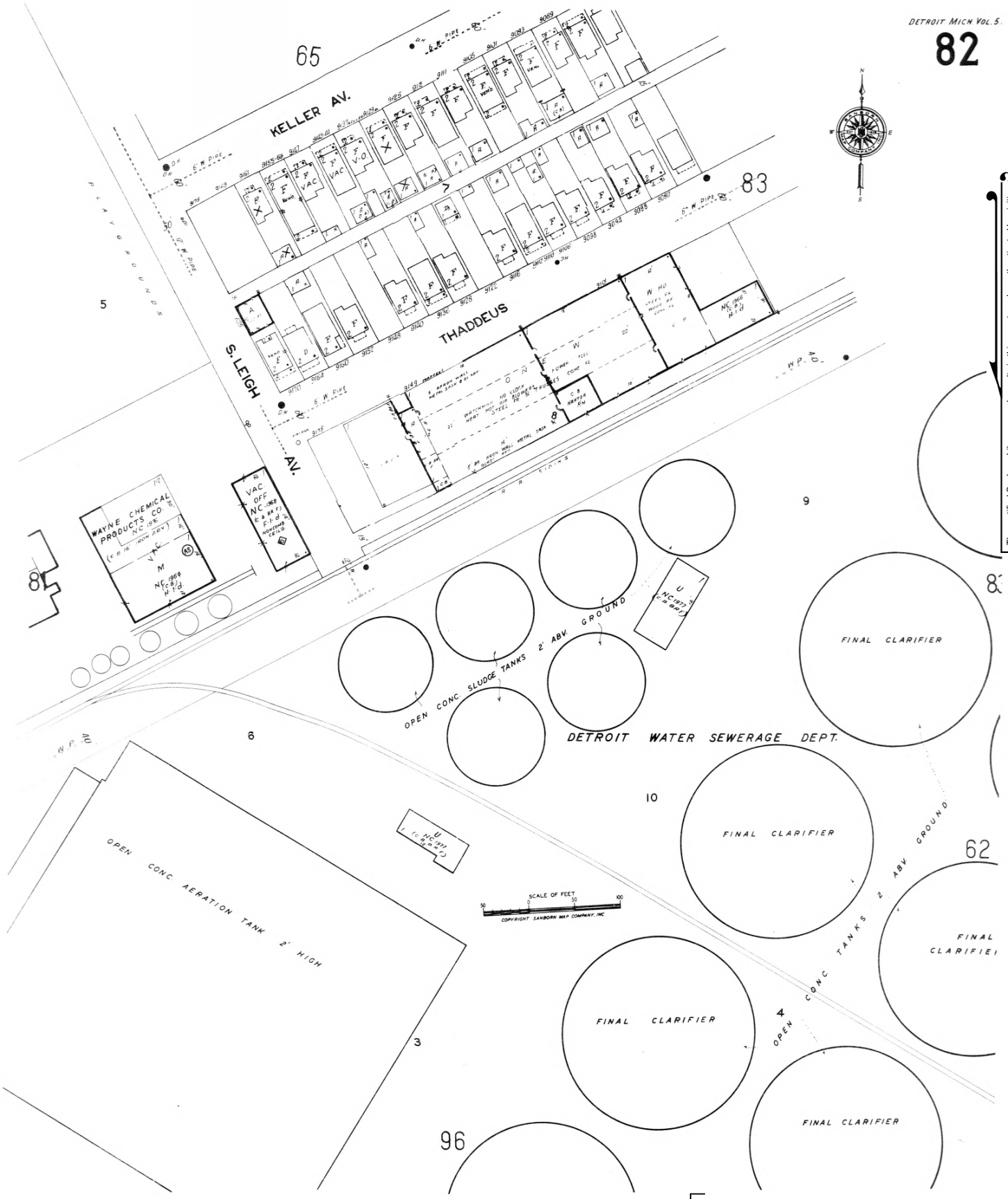


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| | |
|---|---|
| Site Name: | ChemServe |
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| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
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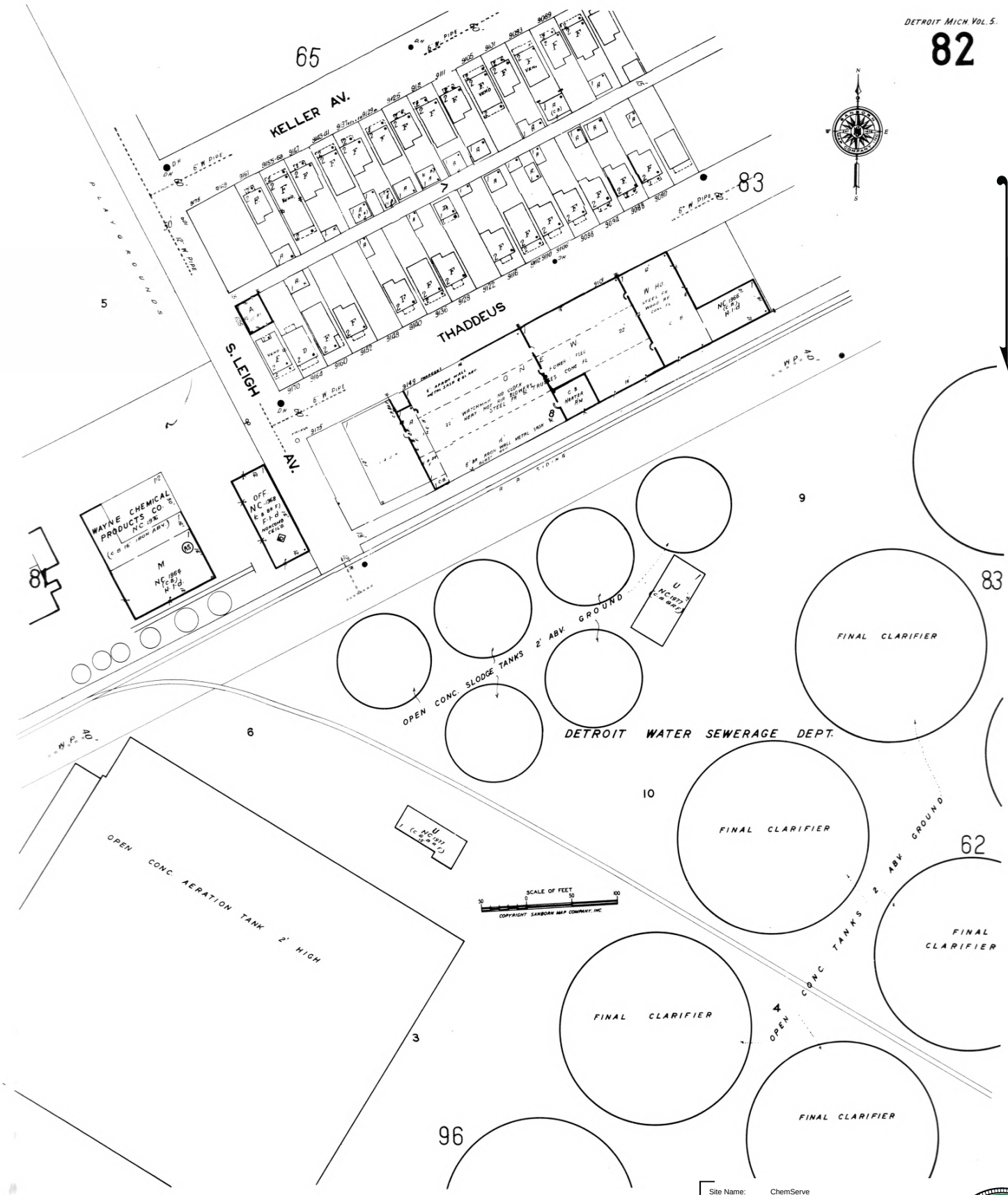
| Certification # | 60A4-4EA4-B448 |

Copyright: 1992

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| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
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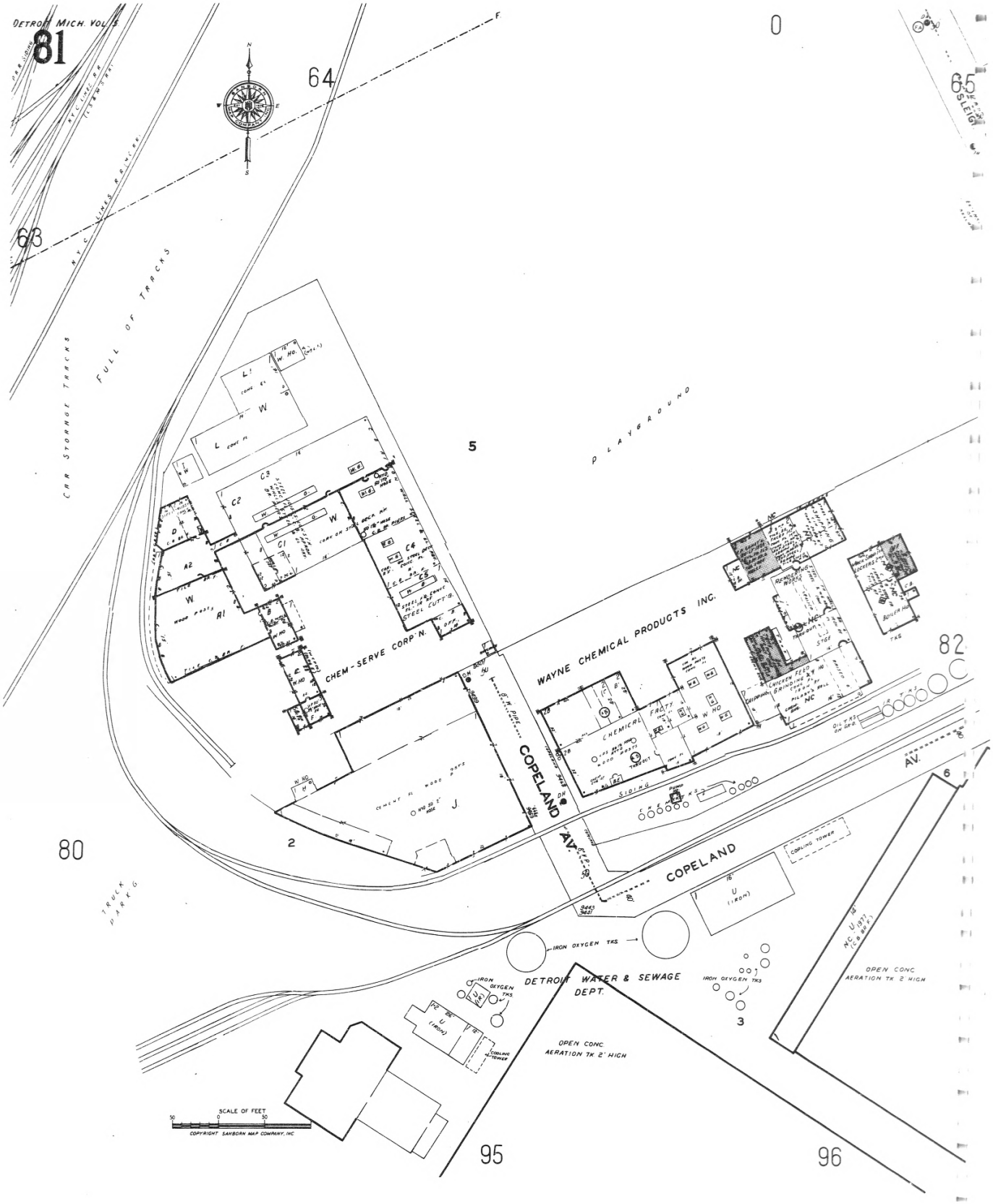
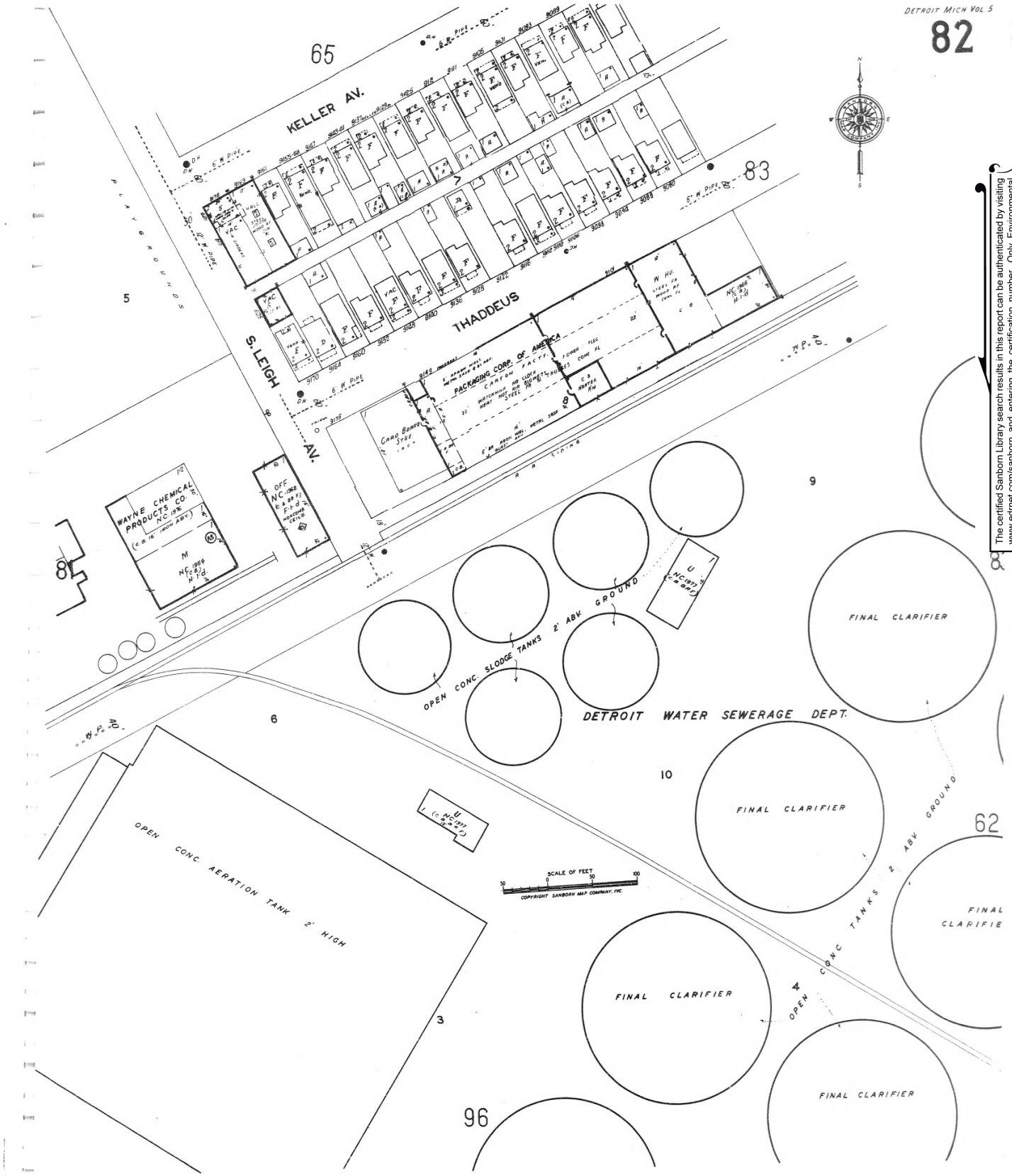



| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |

Copyright: 1978

Co., EDR Sanborn, Inc. 1978

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| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |

Copyright: 1978

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Certification # 60A4-4EA4-B448

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| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |
| Copyright: | 1961 |

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Certification # 60A4-4EA4-B448

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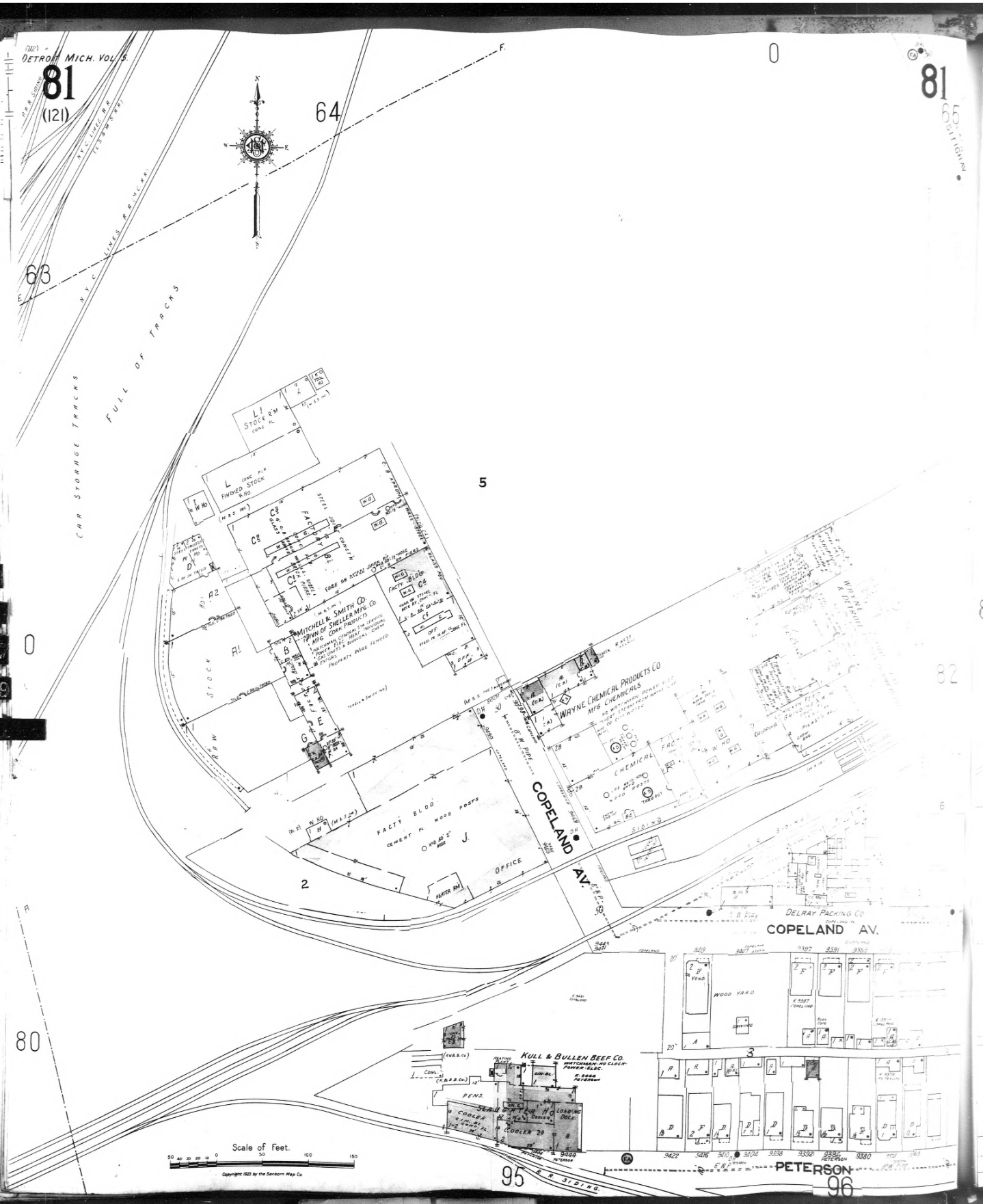
| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |
| Copyright: | 1961 |

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| | |
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| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |

Copyright: 1952

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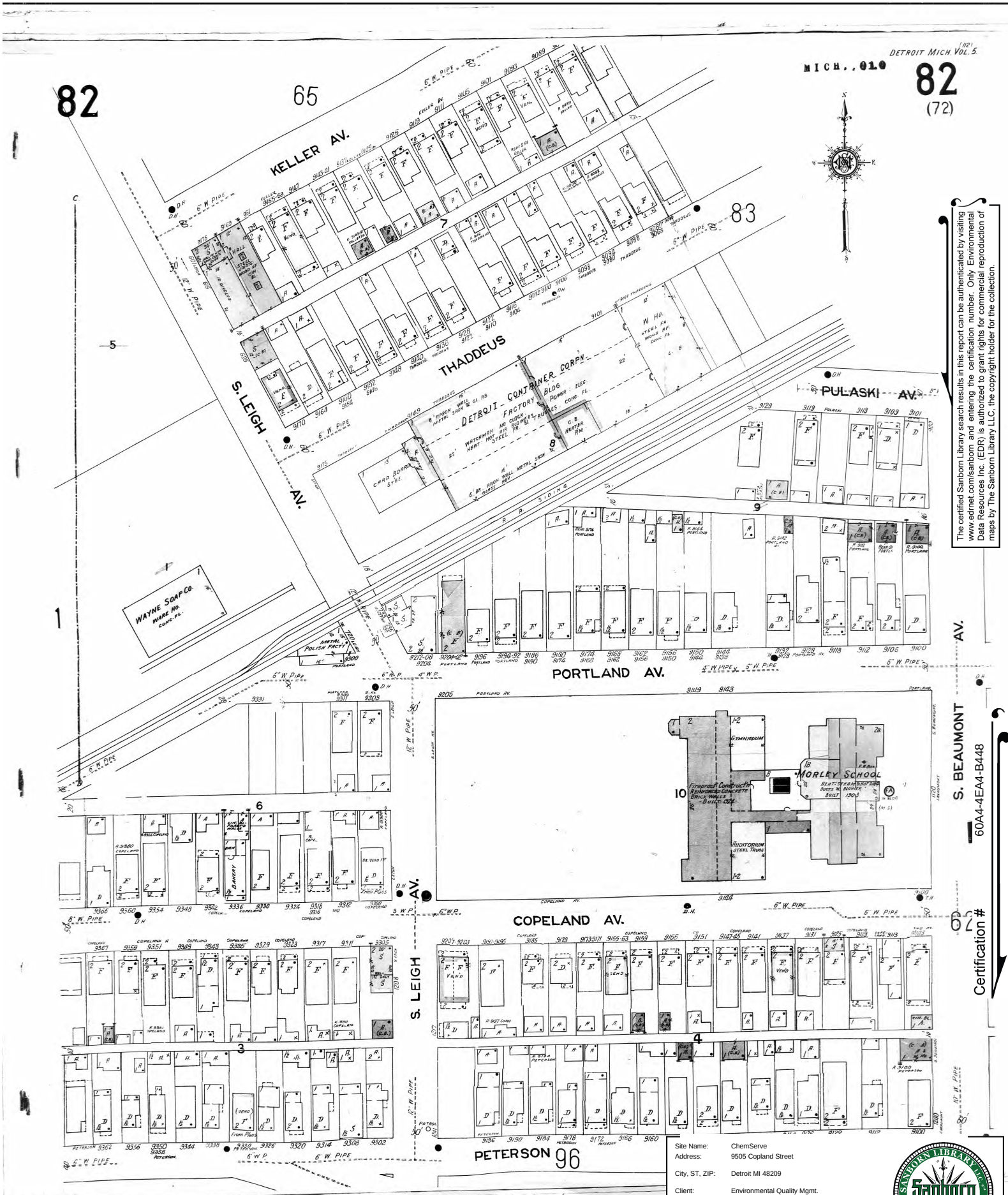
Sanborn
SEAL OF AUTHORITY

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Certification # 60A4-4EA4-B448

Site Name: ChemServe
Address: 9505 Copland Street

City, ST, ZIP: Detroit MI 48209

Client: Environmental Quality Mgmt.
EDR Inquiry: 2325154.3s
Order Date: 9/24/2008 1:18:42 PM
Certification # 60A4-4EA4-B448

Copyright: 1950

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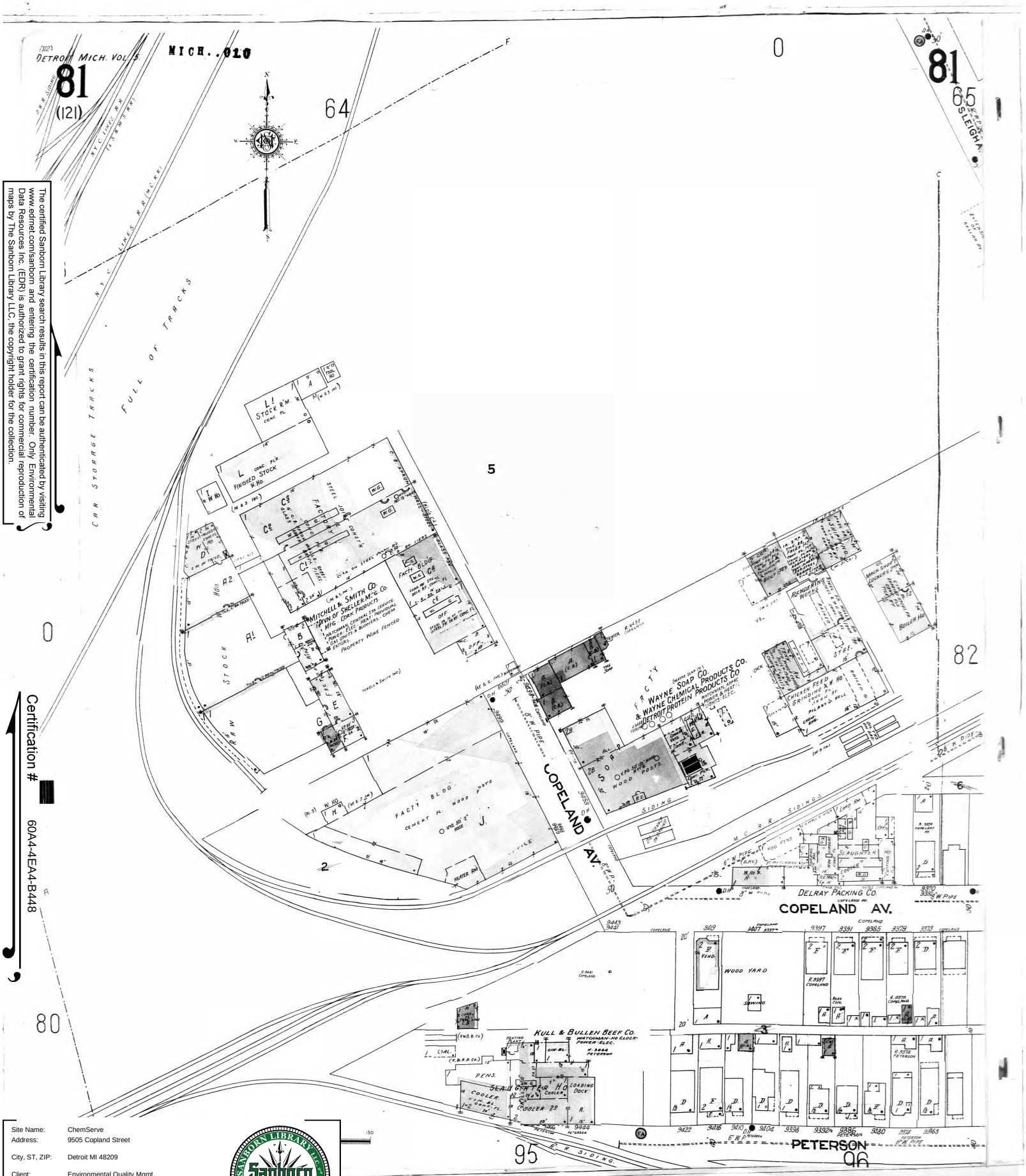
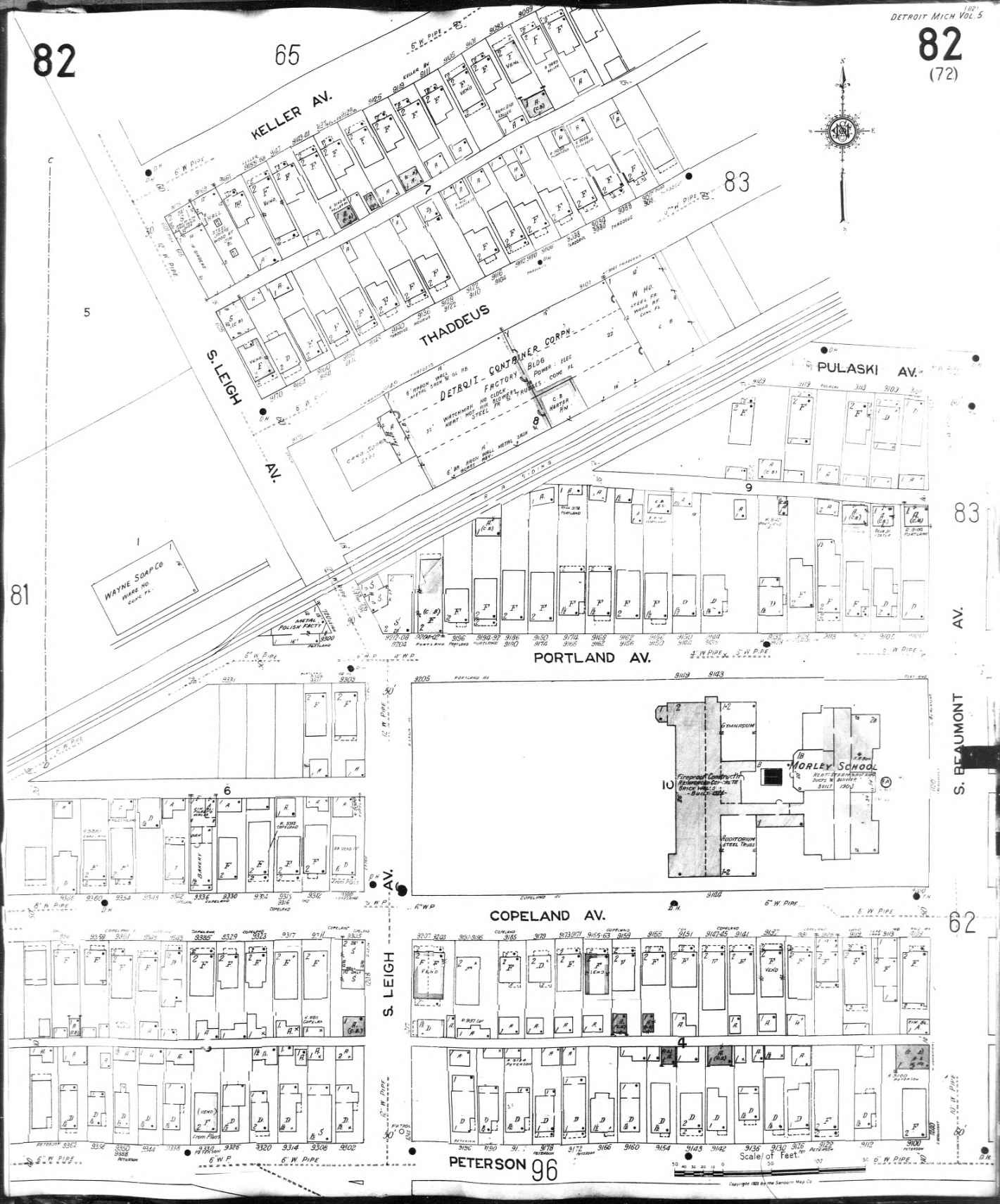
Certification # 60A4-4EA4-B448




Site Name: ChemServe
Address: 9505 Copland Street
City, ST, ZIP: Detroit MI 48209
Client: Environmental Quality Mgmt.
EDR Inquiry: 2325154.3s
Order Date: 9/24/2008 1:18:42 PM
Certification # 60A4-4EA4-B448

Copyright: 1950

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Certification # 60A4-4EA4-B448

| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |
| Copyright: | 1952 |

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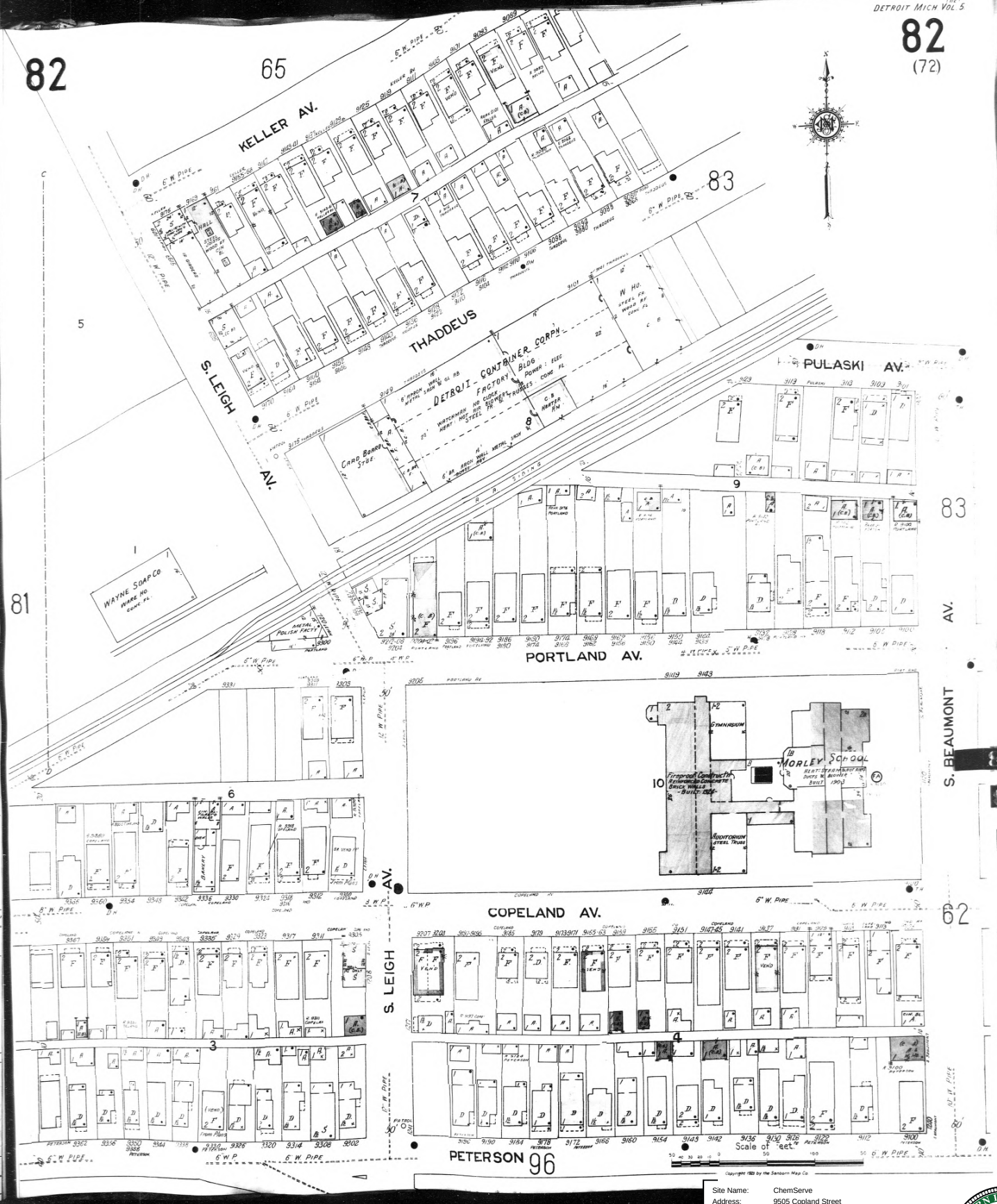


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Certification # 60A4-4EA4-B448

© Sanborn Co., EDR Sanborn, Inc. 1957

Site Name: ChemServe
Address: 9505 Copland Street

City, ST, ZIP: Detroit MI 48209

Client: Environmental Quality Mgmt.
EDR Inquiry: 2325154.3s
Order Date: 9/24/2008 1:18:42 PM
Certification # 60A4-4EA4-B448

Copyright: 1957

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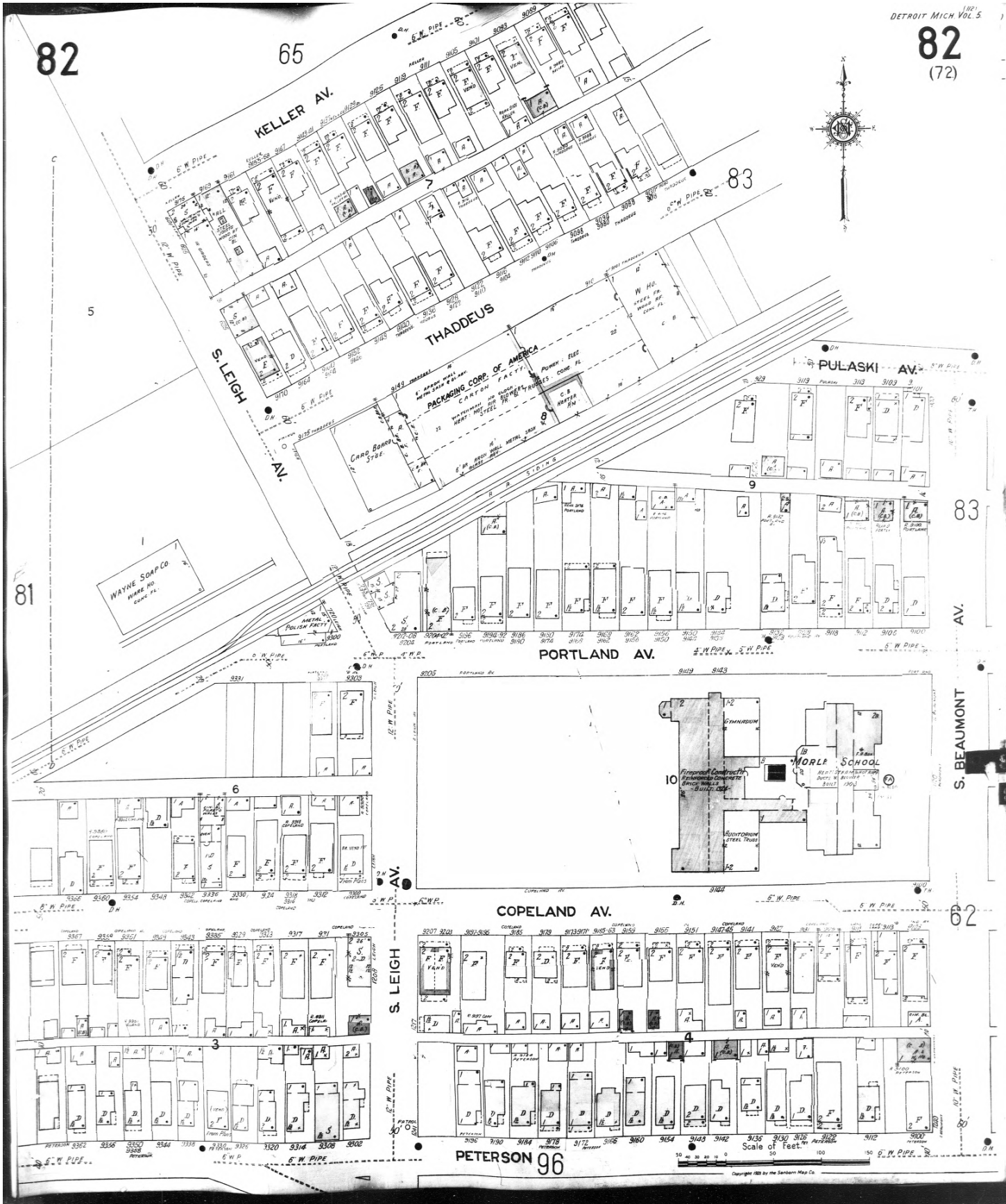
Certification # 60A4-4EA4-B448

| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |

Copyright: 1957

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Certification # 60A4-4EA4-B448

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| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |
| Copyright: | 1961 |

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Sanborn
SEAL OF AUTHORITY

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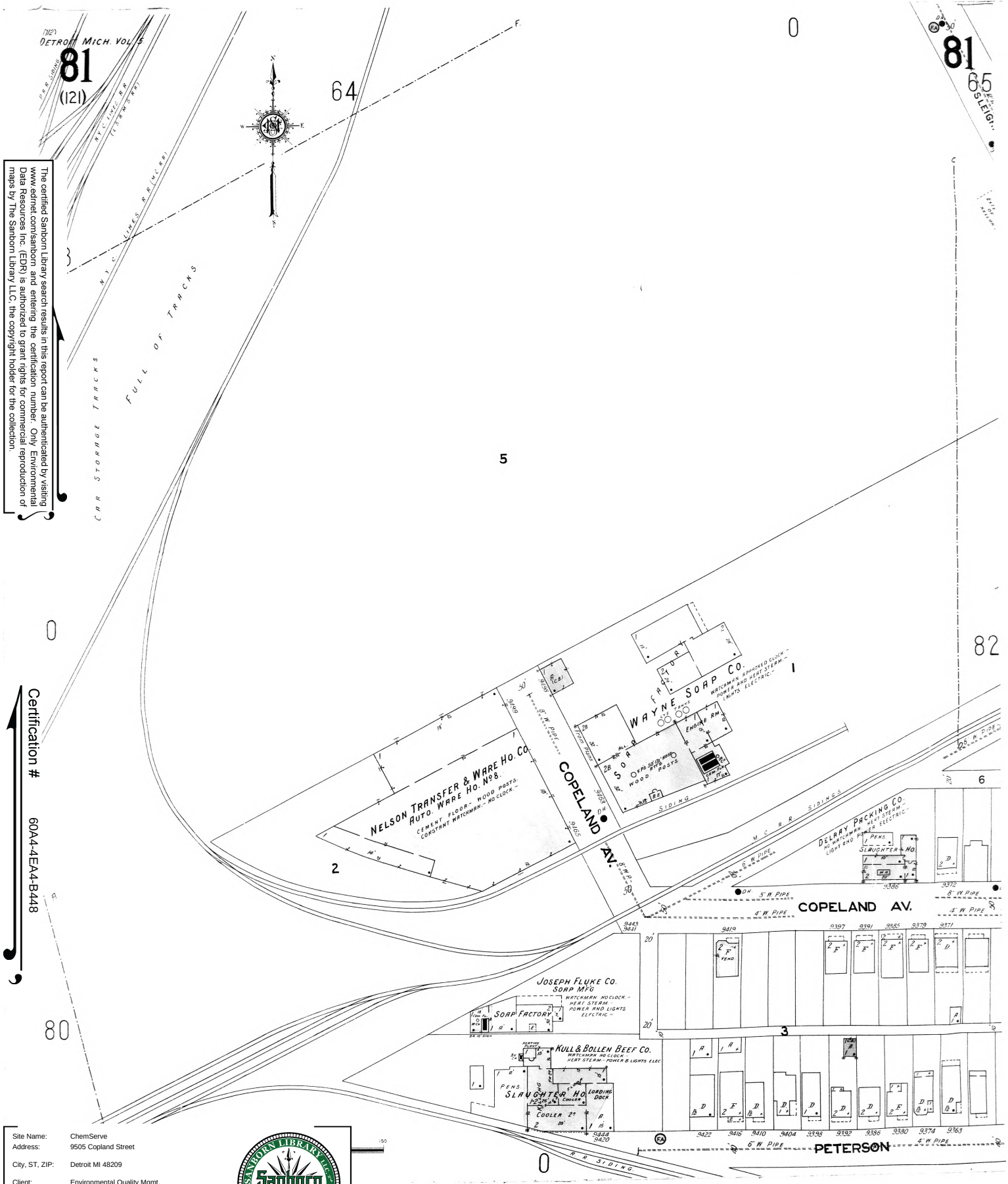
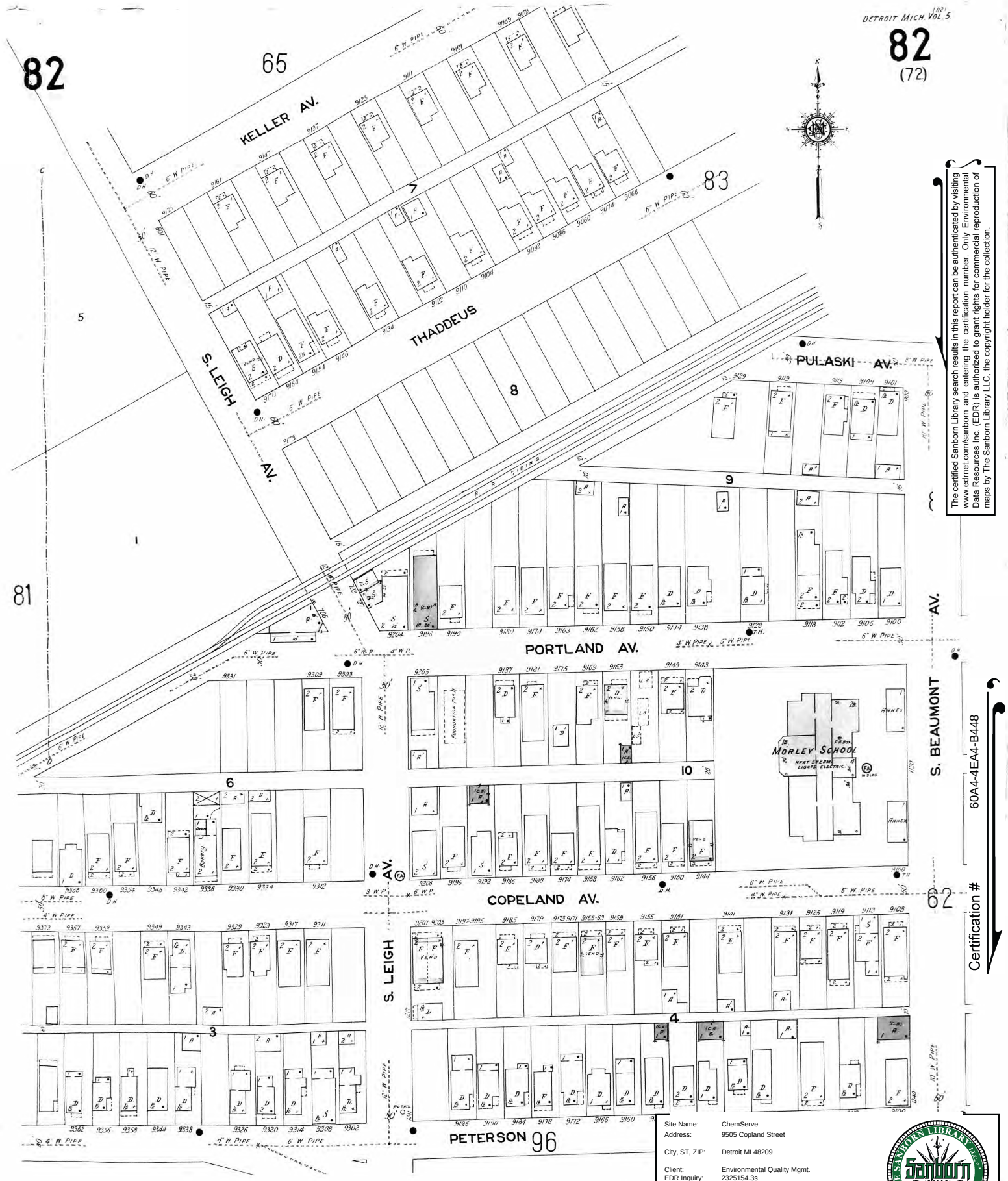
Certification # 60A4-4EA4-B448




| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |

Copyright: 1923

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Certification # 60A4-4EA4-B448

| | |
|---|---|
| Site Name: | ChemServe |
| Address: | 9505 Copland Street |
| City, ST, ZIP: | Detroit MI 48209 |
| Client: | Environmental Quality Mgmt. |
| EDR Inquiry: | 2325154.3s |
| Order Date: | 9/24/2008 1:18:42 PM |
| Certification # | 60A4-4EA4-B448 |

Copyright: 1923

**ChemServe**
9505 Copland Street
Detroit, MI 48209

Inquiry Number: 2325154.6
September 26, 2008

# The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

# EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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## SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1891 through 2008. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

**Date EDR Searched Historical Sources:** September 26, 2008

**Target Property:**
9505 Copland Street
Detroit, MI 48209

| ***Year*** | ***Uses*** | ***Source*** |
|---|---|---|
| 1891 | Address Not Listed in Research Source | Polk's City Directory |
| 1896 | Address Not Listed in Research Source | Polk's City Directory |
| 1901 | Address Not Listed in Research Source | Polk's City Directory |
| 1906 | Address Not Listed in Research Source | Polk's City Directory |
| 1911 | Address Not Listed in Research Source | Polk's City Directory |
| 1915 | Address Not Listed in Research Source | Polk's City Directory |
| 1919 | Address Not Listed in Research Source | Polk's City Directory |
| 1924 | Address Not Listed in Research Source | Polk's City Directory |
| 1930 | Address Not Listed in Research Source | Polk's City Directory |
| 1936 | Address Not Listed in Research Source | Polk's City Directory |
| 1941 | Address Not Listed in Research Source | Polk's City Directory |
| 1956 | Crown Cork & Seal Co., Inc. | Polk's City Directory |
| 1964 | Stonecraft Co. | Polk's City Directory |
| 1968 | Joseph Putz Co. (contrs. eng.) | Polk's City Directory |
| | Western Cartage Co. | Polk's City Directory |
| 1973 | Address Not Listed in Research Source | Bresser's Criss-Cross Directory |
| 1978 | Chemserve Corp. | Bresser's Criss-Cross Directory |
| 1983 | Chemserve Corp. | Bresser's Criss-Cross Directory |
| 1988 | Chemserve Corp. | Bresser's Criss-Cross Directory |
| | Dearborn Refining | Bresser's Criss-Cross Directory |
| 1993 | Chemserve Corp. | Bresser's Criss-Cross Directory |

| Year | Uses | Source |
|---|---|---|
| 1993 | Dearborn Refining | Bresser's Criss-Cross Directory |
| 1998 | Chemserve Corp. | Bresser's Criss-Cross Directory |
| | RAM Chemical Corp. | Bresser's Criss-Cross Directory |
| 2003 | Chemserve Corp. | Bresser's Criss-Cross Directory |
| | Dearborn Refining Co. | Bresser's Criss-Cross Directory |
| 2008 | Chemserve Corp. | Bresser's Criss-Cross Directory |
| | Dearborn Refining Co. | Bresser's Criss-Cross Directory |

## Adjoining Properties

## SURROUNDING

Multiple Addresses
Detroit, MI 48209

| Year | Uses | Source |
|---|---|---|
| 1891 | Address Not Listed in Research Source | Polk's City Directory |
| 1896 | Address Not Listed in Research Source | Polk's City Directory |
| 1901 | Address Not Listed in Research Source | Polk's City Directory |
| 1906 | Address Not Listed in Research Source | Polk's City Directory |
| 1911 | Address Not Listed in Research Source | Polk's City Directory |
| 1915 | ****COPLAND STREET** AKA COPELAND** | Polk's City Directory |
| | Address not listed in research source (9459) | Polk's City Directory |
| | Address not listed in research source (9465) | Polk's City Directory |
| | Address not listed in research source (9469) | Polk's City Directory |
| | Address not listed in research source (9470) | Polk's City Directory |
| | Address not listed in research source (9499) | Polk's City Directory |
| | Address not listed in research source (9501) | Polk's City Directory |
| | Address not listed in research source (9550) | Polk's City Directory |
| | Address not listed in research source (Unnumbered) | Polk's City Directory |

| ***Year*** | ***Uses*** | ***Source*** |
|---|---|---|
| 1915 | Address not listed in research source (ne cor) (Unnumbered) | Polk's City Directory |
| | -All Addresses on Copland Street Renumbered in 1920 | Polk's City Directory |
| 1919 | ****COPLAND STREET**** | Polk's City Directory |
| | Address not listed in research source (9459) | Polk's City Directory |
| | Address not listed in research source (9465) | Polk's City Directory |
| | Address not listed in research source (9469) | Polk's City Directory |
| | Address not listed in research source (9470) | Polk's City Directory |
| | Address not listed in research source (9499) | Polk's City Directory |
| | Address not listed in research source (9501) | Polk's City Directory |
| | Address not listed in research source (9550) | Polk's City Directory |
| | The Wayne Soap Co. (Unnumbered) | Polk's City Directory |
| | Address not listed in research source (ne cor) (Unnumbered) | Polk's City Directory |
| | -All Addresses on Copland Street Renumbered in 1920 | Polk's City Directory |
| 1924 | ****COPLAND STREET**** | Polk's City Directory |
| | Address not listed in research source (9459) | Polk's City Directory |
| | Peninsular Warehouses, Inc. (9465) | Polk's City Directory |
| | Address not listed in research source (9469) | Polk's City Directory |
| | Address not listed in research source (9470) | Polk's City Directory |
| | Peninsular Warehouses, Inc. (9499) | Polk's City Directory |
| | Address not listed in research source (9501) | Polk's City Directory |
| | Address not listed in research source (9550) | Polk's City Directory |
| | Wayne Soap Co. (ne cor) (Unnumbered) | Polk's City Directory |
| | -No Other Addresses Listed Beyond 9499 Copland Street | Polk's City Directory |
| 1930 | ****COPLAND STREET**** | Polk's City Directory |

| ***Year*** | ***Uses*** | ***Source*** |
|---|---|---|
| 1930 | Address not listed in research source (9459) | Polk's City Directory |
| | Mitchell & Smith, Inc. (gaskets) (9469) | Polk's City Directory |
| | Wayne Soap Co. (9470) | Polk's City Directory |
| | Address not listed in research source (9501) | Polk's City Directory |
| | Address not listed in research source (9550) | Polk's City Directory |
| | -No Addresses Listed Beyond 9470 Copland Street | Polk's City Directory |
| 1936 | ****COPLAND STREET**** | Polk's City Directory |
| | Address not listed in research source (9459) | Polk's City Directory |
| | Mitchell & Smith, Inc. (cork products) (9469) | Polk's City Directory |
| | Wayne Chemical Products Co. (9470) | Polk's City Directory |
| | Detroit Protein Products Co. (9470) | Polk's City Directory |
| | Fire Protection Equipment Co. (9470) | Polk's City Directory |
| | Wayne Soap Co. (9470) | Polk's City Directory |
| | Address not listed in research source (9501) | Polk's City Directory |
| | Address not listed in research source (9550) | Polk's City Directory |
| | -No Addresses Listed Beyond 9470 Copland Street | Polk's City Directory |
| 1941 | ****COPLAND STREET**** | Polk's City Directory |
| | Address not listed in research source (9459) | Polk's City Directory |
| | Wayne Chemical Products Co. (9470) | Polk's City Directory |
| | Detroit Protein Products Co. (9470) | Polk's City Directory |
| | Fire Protection Equipment Co. (9470) | Polk's City Directory |
| | Wayne Soap Co. (9470) | Polk's City Directory |
| | Mitchell & Smith, Inc. (insulating material) (9501) | Polk's City Directory |
| | Address not listed in research source (9550) | Polk's City Directory |

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1941 | -No Addresses Listed Beyond 9501 Copland Street | Polk's City Directory |
| 1956 | **COPLAND STREET** | Polk's City Directory |
| | Address not listed in research source (9459) | Polk's City Directory |
| | Wayne Chemical Products Co. (9470) | Polk's City Directory |
| | Vacant (9501) | Polk's City Directory |
| | Address not listed in research source (9550) | Polk's City Directory |
| | -No Addresses Listed Beyond 9505 Copland Street | Polk's City Directory |
| 1964 | **COPLAND STREET** | Polk's City Directory |
| | Address not listed in research source (9459) | Polk's City Directory |
| | Wayne Chemical Products Co. (mfrs.) (9470) | Polk's City Directory |
| | Behr Properties, Inc. (real estate) (9470) | Polk's City Directory |
| | Address not listed in research source (9501) | Polk's City Directory |
| | Address not listed in research source (9550) | Polk's City Directory |
| | -No Addresses Listed Beyond 9505 Copland Street | Polk's City Directory |
| 1968 | **COPLAND STREET** | Polk's City Directory |
| | Address not listed in research source (9459) | Polk's City Directory |
| | Wayne Chemical Products Co. (mfrs.) (9470) | Polk's City Directory |
| | Address not listed in research source (9501) | Polk's City Directory |
| | Address not listed in research source (9550) | Polk's City Directory |
| | -No Addresses Listed Beyond 9505 Copland Street | Polk's City Directory |
| 1973 | **COPLAND STREET** | Bresser's Criss-Cross Directory |
| | Metropolitan Exp. Co. (9459) | Bresser's Criss-Cross Directory |
| | Wayne Chmcl. Prdct. (9470) | Bresser's Criss-Cross Directory |
| | Cryovac Co. (9501) | Bresser's Criss-Cross Directory |

| ***Year*** | ***Uses*** | ***Source*** |
|---|---|---|
| 1973 | Chem-Serve Corp. (9501) | Bresser's Criss-Cross Directory |
| | W.R. Grace & Co. (9501) | Bresser's Criss-Cross Directory |
| | No Return (9550) | Bresser's Criss-Cross Directory |
| | -No Addresses Listed Beyond 9550 Copland Street | Bresser's Criss-Cross Directory |
| 1978 | ****COPLAND STREET**** | Bresser's Criss-Cross Directory |
| | Metropolitan Exp. Co. (9459) | Bresser's Criss-Cross Directory |
| | Wayne Chmcl. Prdct. (9470) | Bresser's Criss-Cross Directory |
| | Meade Chemical Co. (9470) | Bresser's Criss-Cross Directory |
| | Cryovac Co. (9501) | Bresser's Criss-Cross Directory |
| | W.R. Grace & Co. (9501) | Bresser's Criss-Cross Directory |
| | No Return (9550) | Bresser's Criss-Cross Directory |
| | -No Addresses Listed Beyond 9550 Copland Street | Bresser's Criss-Cross Directory |
| 1983 | ****COPLAND STREET**** | Bresser's Criss-Cross Directory |
| | Wayne Chmcl. Prdct. (9470) | Bresser's Criss-Cross Directory |
| | Cryovac Co. (9501) | Bresser's Criss-Cross Directory |
| | W.R. Grace & Co. (9501) | Bresser's Criss-Cross Directory |
| | -No Other Addresses Listed on Copland Street | Bresser's Criss-Cross Directory |
| 1988 | ****COPLAND STREET**** | Bresser's Criss-Cross Directory |
| | Wayne Chmcl. Prdct. (9470) | Bresser's Criss-Cross Directory |
| | Cryovac Co. (9501) | Bresser's Criss-Cross Directory |
| | W.R. Grace & Co. (9501) | Bresser's Criss-Cross Directory |
| | -No Other Addresses Listed on Copland Street | Bresser's Criss-Cross Directory |
| 1993 | ****COPLAND STREET**** | Bresser's Criss-Cross Directory |
| | -No Other Addresses Listed on Copland Street | Bresser's Criss-Cross Directory |

| ***Year*** | ***Uses*** | ***Source*** |
|---|---|---|
| 1998 | ****COPLAND STREET**** | Bresser's Criss-Cross Directory |
| | -No Other Addresses Listed on Copland Street | Bresser's Criss-Cross Directory |
| 2003 | ****COPLAND STREET**** | Bresser's Criss-Cross Directory |
| | -No Other Addresses Listed on Copland Street | Bresser's Criss-Cross Directory |
| 2008 | ****COPLAND STREET**** | Bresser's Criss-Cross Directory |
| | -No Other Addresses Listed on Copland Street | Bresser's Criss-Cross Directory |

AMERISTAR

# CHAIN OF OWNERSHIP REPORT COMBO

## CLIENT INFORMATION

| | | | |
|---|---|---|---|
| **Client:** | Environmental Data Resources | **Report Date:** | 09/30/2008 |
| **Client No.:** | 12010 | **Index Date:** | 08/29/2008 |
| **Address:** | 440 Wheelers Farms Rd<br>Milford, CT 06460 | **Order ID:** | 89-200-1-7723 |
| | | **Client Ref.:** | 2325154.8S |
| **Contact:** | Tony Alves | **PO Number:** | John Miller |
| **Phone:** | 800-238-0050 | | |
| **Delivery:** | talves@edrnet.com | | |

## CURRENT OWNER INFORMATION

| | |
|---|---|
| **Current Owner of Record:** | Chem-Serve Corporation |
| **Current Site Address:** | 9505 COPLAND ST<br>DETROIT, MI 48209-2642 |
| **County of Research:** | WAYNE |

## LEGAL DESCRIPTION

LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MICHIGAN DESCRIBED AS: PARCEL 1: CONTAINING ONE ACRE OF LAND, MORE OR LESS. PARCEL 2:SAME BEING THREE ACRES OF LAND; MORE FULLY DESCRIBED IN VOLUME 18279, PAGE 216 IN DEED RECORDS OF WAYNE COUNTY, MICHIGAN.

**NOTE: Ameristar does not represent that the above legal description, acreage, or square footage calculations are correct. We have taken this information directly from a document recorded at the courthouse.**

## TAX INFORMATION

**PARCEL IDENTIFICATION NUMBER: 20-005897**

| **TAX VALUE INFORMATION** | | **SPECIAL COMMENTS** |
|---|---|---|
| **Land Value:** | | |
| **Improvement Value:** | | |
| **Total Value:** | $85,313.00 | |

DISCLAIMER: This report contains information obtained from public records, and being that our company is not the primary provider of such, Ameristar cannot and will not, for the fee charged, be an insurer or guarantor of the accuracy or reliability of said information. Ameristar does not guarantee or warrant the accuracy, timeliness, completeness, currentness, merchantability or fitness for a particular purpose of services provided. Further, Ameristar's sole liability is limited to the cost of this report only. Ameristar is not liable to user for any loss or injury arising out of or caused, in whole or in part, by Ameristar's acts or omissions, whether negligent or otherwise, in procuring, compiling, collecting, interpreting, reporting, communicating, or delivering the services or information contained herein. THIS REPORT IS NOT AN ABSTRACT, OPINION OF TITLE, TITLE COMMITMENT NOR GUARANTEE, OR TITLE INSURANCE POLICY.

*500 South Nolen Drive, Ste 100 Southlake TX 76092 Phone (800) 920-9270 Fax (800) 920-9271*

AMERISTAR

# DEED / OWNERSHIP INFORMATION

***Search was performed from 01/01/1940 through 08/29/2008.**

***WARRANTY DEED:***

**DATED:** 02/07/1941
**GRANTOR:** Max Stotter and Minnie E. Stotter, his wife
**GRANTEE:** Mitchell and Smith, Inc.
**VOLUME:** 5633 **PAGE:** 628

***WARRANTY DEED:***

**DATED:** 08/22/1946
**GRANTOR:** Mitchell and Smith Inc.
**GRANTEE:** Sheller Manufacturing Corp.
**VOLUME:** 8202 **PAGE:** 564

***WARRANTY DEED:***

**DATED:** 10/28/1953
**GRANTOR:** Sheller Manufacturing Corp.
**GRANTEE:** Wayne Chemical Products Co.
**VOLUME:** 11903 **PAGE:** 199

***WARRANTY DEED:***

**DATED:** 10/18/1967
**GRANTOR:** Wayne Chemical Products Co.
**GRANTEE:** Behr Properties, Inc.
**VOLUME:** 16454 **PAGE:** 138

***WARRANTY DEED:***

**DATED:** 12/12/1969
**GRANTOR:** Behr Properties, Inc.
**GRANTEE:** Western Storage and Warehouse, Inc.
**VOLUME:** 17237 **PAGE:** 239

***WARRANTY DEED:***

**DATED:** 11/30/1972
**GRANTOR:** Western Storage & Warehouse, Inc.
**GRANTEE:** Chem-Save Corporation
**VOLUME:** 18279 **PAGE:** 215

F770732

Lawyers Title Insurance Corporation

WARRANTY DEED—CORPORATION—Statutory Form
C.L. 1948, 566.151 M.S.A. 26.571
Form 503 6-71

20/5897
5900

KNOW ALL MEN BY THESE PRESENTS: That Western Storage & Warehouse, Inc., a Michigan Corporation

whose address is 2410 Vinewood, Detroit, Michigan 48216

L18279 PA215

Conveys and Warrants to Chem-Serve Corporation, a Michigan Corporation

whose address is 125 S. Junction, Detroit, Michigan 48209

the following described premises situated in the City of Detroit

County of Wayne and State of Michigan, to-wit:

F770732

SEE RIDER ATTACHED FOR DESCRIPTION
Lands in Private Claims 340 and 405

together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining,

for the full consideration of ---$102,500.00----------

subject to restrictions and easements of record

RECEIVED DEC 13 1972 AT 8:58 RECORDED BY
BERNARD J. YOUNGBLOOD, Register of Deeds
WAYNE COUNTY, MICHIGAN 48226

Dated this 30th day of November 1972

Witnesses:

Gladys Barshian

George B. Bryce

Signed and Sealed:

Western Storage & Warehouse, Inc. (L.S.)
a Michigan Corporation

By Joseph A. Lapansee
Joseph A. Lapansee

Its President

Raymond F. Radgin
Raymond F. Radgin

Its Secretary

STATE OF MICHIGAN
COUNTY OF Wayne } ss.

The foregoing instrument was acknowledged before me this 30th day of November 1972

(1) by Joseph A. Lapansee & Raymond F. Radgin
(2) President and Secretary
(3) of Western Storage & Warehouse, Inc.
(4) a Michigan Corporation

Corporation on behalf of the said corporation.

Edward C. Washnock

EDWARD C. WASHNOCK
Notary Public, Oakland County, Mich.
Acting in Wayne County, Mich.
My Commission Expires 7-28-76

My commission expires

Notary Public County, Michigan

Note: Insert at (1) name(s) of officer(s) (2) title(s) of officers(s) (3) name of corporation (4) state of incorporation

Instrument Drafted by Donald F. Carney Business Address 300 First Federal Bldg. Detroit, Mich. 48226

This is to certify that there are no tax liens or titles on the property and that County Treasurer's records show no delinquent City taxes for five years previous to date of this instrument EXCEPT

Rs. 1264

DEC 07 1972 Wayne County Treasurer

Clerk

City Treasurer's Certificate

Rs 182 DEC 7 1972

City Treasurer hereby certifies that the within described property are free of [illegible] of City Charter as amended June [illegible] 1966 except City and Special taxes excluded.

Recording Fee 3.50

State Transfer Tax $112.75

Tax Parcel #

When recorded return to G. REID BRYCE CITY WEST REG. NATIONAL BANK OF DETROIT, BOX 116, DETROIT, MICH. 48232

Send subsequent tax bills to GRANTEE 9505 COPELAND, DETROIT, MICH.

08 7-12-73 00010000 II

Rider - to Warranty Deed dated the 30th day of November, 1972 between WESTERN STORAGE & WAREHOUSE, INC., A Michigan Corporation, Grantor to CHEM-SERVE CORPORATION, a Michigan Corporation, Grantee.

DESCRIPTION OF REAL ESTATE

Land in the City of Detroit, Wayne County, Michigan described as:

PARCEL 1 - Beginning at a stake distant north 28 degrees 6 minutes west 69.24 feet from a point on the southerly line of Private Claim 405, said point being distant north 61 degrees 52 minutes east 1,377.47 feet from the intersection of the easterly line of the Toledo Canada Southern and Detroit Railway right-of-way with said southerly line of Private Claim 405; thence south 67 degrees 49 minutes west 41.47 feet to a stake; thence on a curve to the right, whose radius is 430 feet and chord of which is north 75 degrees 36 minutes west and the distance in said chord is 328.40 feet to a stake; thence north 61 degrees 56 minutes east 283.45 feet to a stake; thence south 28 degrees 6 minutes east 226.0 feet to the point of beginning, containing one acre of land, more or less.

PARCEL 2 - Part of Private Claims 340 and 405 described as: Beginning at the intersection of the line between said Private Claims 340 and 405 and the easterly right-of-way line of the Michigan Central Railroad Delta Yard; thence south 27 degrees 04 minutes west 134.4 feet along said right-of-way line; thence southeasterly 253.5 feet on a curve to the left having a radius of 430 feet; thence north 61 degrees 53 minutes east 333.75 feet to the easterly line of a private street; thence north 22 degrees 07 minutes west (described) 440.0 feet; thence north 28 degrees 07 minutes west (measured) 440.0 feet along the easterly line of said private street produced; thence south 61 degrees 53 minutes west 92.02 feet to the before mentioned right-of-way line; thence south 27 degrees 04 minutes west 201.01 feet along said right-of-way line to the point of beginning; same being three acres of land.

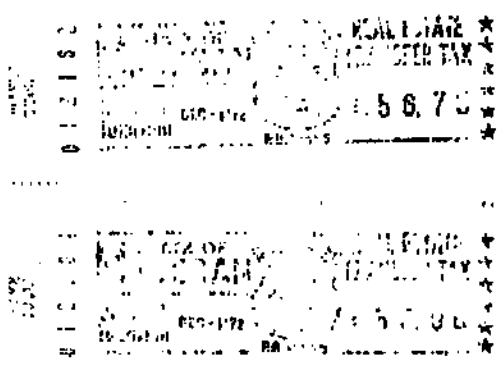
Undersigned certify that the above described property is conveyed by deed dated the 30th day of November, 1972.

WESTERN STORAGE & WAREHOUSE, INC.

x Joseph A. Lapansee
Joseph A. Lapansee, President

x Raymond F. Radgin
Raymond F. Radgin, Secretary

x _____



# APPENDIX C

# LABORATORY REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

# ANALYTICAL REPORT

CHEM SERVE DETROIT, MI

Lot #: A8J030133

Stephanie Werner

Environmental Quality Mgt., I
1800 Carillon Blvd
Cincinnati, OH 45240

TESTAMERICA LABORATORIES, INC.

Mark J. Loeb
Project Manager

October 13, 2008

# CASE NARRATIVE

A8J030133

The following report contains the analytical results for four water samples and one quality control sample submitted to TestAmerica North Canton by Environmental Quality Mgt. Inc. from the Chem Serve Detroit, MI Site. The samples were received October 03, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Stephanie Werner on October 07, 2008, on October 08, 2008, and Aaron Roski, Erik Corbin, Jackie Doan, Stephanie Werner on October 09, 2008. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Mark J. Loeb, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 73.

# CASE NARRATIVE (continued)

## SUPPLEMENTAL QC INFORMATION

### SAMPLE RECEIVING

The coolers were received at temperatures ranging from 0.5 to 2.8°C.

### GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 8280256. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

Sample(s) TMW3 had elevated reporting limits due to foaming.

### GC/MS SEMIVOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 8277227. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

The internal standard areas were outside acceptance limits for sample(s) TMW2 due to matrix effects. (Refer to IS report following this Case Narrative for additional detail.)

# CASE NARRATIVE (continued)

## PURGEABLE PETROLEUM HYDROCARBONS-8015

The analytical results met the requirements of the laboratory's QA/QC program.

## EXTRACTABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 8277229. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

## POLYCHLORINATED BIPHENYLS-8082

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 8277228. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

Surrogate recoveries were outside criteria for sample(s) TMW3. Since the method criterion is that one of two surrogate compounds must meet acceptance criteria, no corrective action was required.

## METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

# CASE NARRATIVE (continued)

## METALS (continued)

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

# QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

**QC BATCH**

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

**LABORATORY CONTROL SAMPLE**

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

**METHOD BLANK**

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

| Volatile (GC or GC/MS) | Semivolatile (GC/MS) | Metals ICP-MS | Metals ICP Trace |
|---|---|---|---|
| Methylene Chloride, Acetone, 2-Butanone | Phthalate Esters | Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese | Copper, Iron, Zinc, Lead |

## QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

**SURROGATE COMPOUNDS**

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

***TestAmerica North Canton Certifications and Approvals:***

*California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),*
*Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), OhioVAP (#CL0024), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit*

*N:\QAQC\Customer Service\Narrative - Combined RCRA _CWA 061807.doc*

(s10H
Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\81006a.b\KX4N81AC.D  Page 4
Report Date: 10-Oct-2008 10:03

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: KX4N81AC.D
Lab Smp Id: KX4N81AC
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\81006a.b\8270-625.m
Misc Info:

Calibration Date: 06-OCT-2008
Calibration Time: 10:35
Client Smp ID: TMW2
Level: LOW
Sample Type: WATER

| COMPOUND | STANDARD | AREA LIMIT LOWER | AREA LIMIT UPPER | SAMPLE | %DIFF | |
|---|---|---|---|---|---|---|
| 1 1,4-Dichlorobenze | 132783 | 66392 | 265566 | 57068 | -57.02 | <- |
| 2 Naphthalene-d8 | 530564 | 265282 | 1061128 | 247564 | -53.34 | <- |
| 3 Acenaphthene-d10 | 288099 | 144050 | 576198 | 140130 | -51.36 | <- |
| 4 Phenanthrene-d10 | 456677 | 228339 | 913354 | 224773 | -50.78 | <- |
| 5 Chrysene-d12 | 446682 | 223341 | 893364 | 212711 | -52.38 | <- |
| 6 Perylene-d12 | 388801 | 194401 | 777602 | 191951 | -50.63 | <- |

| COMPOUND | STANDARD | RT LIMIT LOWER | RT LIMIT UPPER | SAMPLE | %DIFF |
|---|---|---|---|---|---|
| 1 1,4-Dichlorobenze | 3.59 | 3.09 | 4.09 | 3.59 | -0.14 |
| 2 Naphthalene-d8 | 4.49 | 3.99 | 4.99 | 4.49 | 0.00 |
| 3 Acenaphthene-d10 | 5.75 | 5.25 | 6.25 | 5.75 | -0.09 |
| 4 Phenanthrene-d10 | 6.84 | 6.34 | 7.34 | 6.83 | -0.08 |
| 5 Chrysene-d12 | 8.82 | 8.32 | 9.32 | 8.80 | -0.24 |
| 6 Perylene-d12 | 10.33 | 9.83 | 10.83 | 10.30 | -0.26 |

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

# EXECUTIVE SUMMARY - Detection Highlights

**A8J030133**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **TMW4 10/02/08 09:00 001** | | | | |
| TPH (as Diesel) | 170 B | 100 | ug/L | SW846 8015B |
| Arsenic | 14.5 | 10.0 | ug/L | SW846 6010B |
| Chromium | 9.2 | 5.0 | ug/L | SW846 6010B |
| Copper | 11.3 B | 25.0 | ug/L | SW846 6010B |
| Lead | 13.5 | 3.0 | ug/L | SW846 6010B |
| Nickel | 10.2 B | 25.0 | ug/L | SW846 6010B |
| Zinc | 46.5 | 20.0 | ug/L | SW846 6010B |
| Acetone | 1.6 J | 25 | ug/L | SW846 8260B |
| **TMW3 10/02/08 11:50 002** | | | | |
| TPH (as Diesel) | 3400 B | 1000 | ug/L | SW846 8015B |
| Antimony | 3.7 B,J | 10.0 | ug/L | SW846 6010B |
| Arsenic | 18.7 | 10.0 | ug/L | SW846 6010B |
| Beryllium | 1.1 | 1.0 | ug/L | SW846 6010B |
| Cadmium | 1.5 B | 2.0 | ug/L | SW846 6010B |
| Chromium | 81.3 | 5.0 | ug/L | SW846 6010B |
| Copper | 29.4 | 25.0 | ug/L | SW846 6010B |
| Lead | 106 | 3.0 | ug/L | SW846 6010B |
| Nickel | 442 | 25.0 | ug/L | SW846 6010B |
| Selenium | 6.0 | 5.0 | ug/L | SW846 6010B |
| Thallium | 6.2 B | 10.0 | ug/L | SW846 6010B |
| Zinc | 181 | 20.0 | ug/L | SW846 6010B |
| 2,4-Dimethylphenol | 6.5 J | 25 | ug/L | SW846 8270C |
| Methyl acetate | 7.4 J | 100 | ug/L | SW846 8260B |
| Methylene chloride | 16 J,B | 50 | ug/L | SW846 8260B |
| Methyl tert-butyl ether | 5.6 J | 50 | ug/L | SW846 8260B |
| Tetrachloroethene | 8.7 J | 10 | ug/L | SW846 8260B |
| **TMW2 10/02/08 13:50 003** | | | | |
| TPH (as Diesel) | 720 B | 100 | ug/L | SW846 8015B |
| Arsenic | 6.7 B | 10.0 | ug/L | SW846 6010B |
| Chromium | 3.4 B | 5.0 | ug/L | SW846 6010B |
| Copper | 18.1 B | 25.0 | ug/L | SW846 6010B |
| Lead | 6.0 | 3.0 | ug/L | SW846 6010B |
| Nickel | 30.9 | 25.0 | ug/L | SW846 6010B |
| Selenium | 4.5 B | 5.0 | ug/L | SW846 6010B |
| Zinc | 30.1 | 20.0 | ug/L | SW846 6010B |
| Anthracene | 0.36 J | 5.0 | ug/L | SW846 8270C |
| Di-n-butyl phthalate | 7.1 | 5.0 | ug/L | SW846 8270C |
| Acetone | 2.7 J | 25 | ug/L | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

**A8J030133**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **TMW1 10/02/08 15:15 004** | | | | |
| TPH (as Diesel) | 450 B | 100 | ug/L | SW846 8015B |
| Arsenic | 15.5 | 10.0 | ug/L | SW846 6010B |
| Chromium | 8.6 | 5.0 | ug/L | SW846 6010B |
| Copper | 10.0 B | 25.0 | ug/L | SW846 6010B |
| Lead | 12.2 | 3.0 | ug/L | SW846 6010B |
| Nickel | 10.1 B | 25.0 | ug/L | SW846 6010B |
| Zinc | 43.4 | 20.0 | ug/L | SW846 6010B |
| Caprolactam | 2.4 J | 10 | ug/L | SW846 8270C |
| Di-n-butyl phthalate | 1.2 J | 5.0 | ug/L | SW846 8270C |
| Fluoranthene | 0.36 J | 5.0 | ug/L | SW846 8270C |
| Phenanthrene | 0.25 J | 5.0 | ug/L | SW846 8270C |
| Pyrene | 0.29 J | 5.0 | ug/L | SW846 8270C |
| Acetone | 2.4 J | 25 | ug/L | SW846 8260B |
| **TRIP BLANK 10/02/08 005** | | | | |
| Acetone | 2.3 J | 25 | ug/L | SW846 8260B |

# ANALYTICAL METHODS SUMMARY

**A8J030133**

| PARAMETER | ANALYTICAL METHOD |
|---|---|
| Extractable Petroleum Hydrocarbons | SW846 8015B |
| Mercury in Liquid Waste (Manual Cold-Vapor) | SW846 7470A |
| PCBs by SW-846 8082 | SW846 8082 |
| Semivolatile Organic Compounds by GC/MS | SW846 8270C |
| Trace Inductively Coupled Plasma (ICP) Metals | SW846 6010B |
| Volatile Organics by GC/MS | SW846 8260B |
| Volatile Petroleum Hydrocarbons | SW846 8015B |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

**A8J030133**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| KX4N1 | 001 | TMW4 | 10/02/08 | 09:00 |
| KX4N7 | 002 | TMW3 | 10/02/08 | 11:50 |
| KX4N8 | 003 | TMW2 | 10/02/08 | 13:50 |
| KX4N9 | 004 | TMW1 | 10/02/08 | 15:15 |
| KX4PA | 005 | TRIP BLANK | 10/02/08 | |

**NOTE(S):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW4**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-001 **Work Order #...:** KX4N11AA **Matrix.....:** WG
**Date Sampled...:** 10/02/08 09:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/06/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8280256
**Dilution Factor:** 1 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **1.6 J** | **25** | **ug/L** |
| Benzene | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 1.0 | ug/L |
| 2-Butanone | ND | 25 | ug/L |
| Carbon disulfide | ND | 5.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chloroethane | ND | 1.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 1.0 | ug/L |
| Cyclohexane | ND | 1.0 | ug/L |
| Dibromochloromethane | ND | 1.0 | ug/L |
| 1,2-Dibromo-3-chloro-propane | ND | 1.0 | ug/L |
| 1,2-Dibromoethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/L |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| 2-Hexanone | ND | 50 | ug/L |
| Isopropylbenzene | ND | 5.0 | ug/L |
| Methyl acetate | ND | 10 | ug/L |
| Methylene chloride | ND | 5.0 | ug/L |
| Methylcyclohexane | ND | 1.0 | ug/L |
| 4-Methyl-2-pentanone | ND | 50 | ug/L |
| Methyl tert-butyl ether | ND | 5.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW4**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-001 **Work Order #...:** KX4N11AA **Matrix.....:** WG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 2.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 105 | (73 - 122) |
| 1,2-Dichloroethane-d4 | 99 | (61 - 128) |
| Toluene-d8 | 96 | (76 - 110) |
| 4-Bromofluorobenzene | 87 | (74 - 116) |

**NOTE(S):**

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW4**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-001 **Work Order #...:** KX4N11AC **Matrix.....:** WG
**Date Sampled...:** 10/02/08 09:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277227
**Dilution Factor:** 1 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Acenaphthene | ND | 5.0 | ug/L |
| Acenaphthylene | ND | 5.0 | ug/L |
| Acetophenone | ND | 5.0 | ug/L |
| Anthracene | ND | 5.0 | ug/L |
| Atrazine | ND | 5.0 | ug/L |
| Benzo(a)anthracene | ND | 1.0 | ug/L |
| Benzo(a)pyrene | ND | 2.0 | ug/L |
| Benzo(b)fluoranthene | ND | 2.0 | ug/L |
| Benzo(ghi)perylene | ND | 5.0 | ug/L |
| Benzo(k)fluoranthene | ND | 5.0 | ug/L |
| Benzaldehyde | ND | 10 | ug/L |
| 1,1'-Biphenyl | ND | 10 | ug/L |
| bis(2-Chloroethoxy) methane | ND | 5.0 | ug/L |
| bis(2-Chloroethyl)- ether | ND | 4.0 | ug/L |
| bis(2-Ethylhexyl) phthalate | ND | 5.0 | ug/L |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L |
| Butyl benzyl phthalate | ND | 5.0 | ug/L |
| Caprolactam | ND | 10 | ug/L |
| Carbazole | ND | 10 | ug/L |
| 4-Chloroaniline | ND | 20 | ug/L |
| 4-Chloro-3-methylphenol | ND | 5.0 | ug/L |
| 2-Chloronaphthalene | ND | 5.0 | ug/L |
| 2-Chlorophenol | ND | 5.0 | ug/L |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L |
| Chrysene | ND | 5.0 | ug/L |
| Dibenz(a,h)anthracene | ND | 2.0 | ug/L |
| Dibenzofuran | ND | 5.0 | ug/L |
| 3,3'-Dichlorobenzidine | ND | 4.0 | ug/L |
| 2,4-Dichlorophenol | ND | 10 | ug/L |
| Diethyl phthalate | ND | 5.0 | ug/L |
| 2,4-Dimethylphenol | ND | 5.0 | ug/L |
| Dimethyl phthalate | ND | 5.0 | ug/L |
| Di-n-butyl phthalate | ND | 5.0 | ug/L |
| 4,6-Dinitro- 2-methylphenol | ND | 20 | ug/L |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW4**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-001 **Work Order #...:** KX4N11AC **Matrix.....:** WG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 2,4-Dinitrophenol | ND | 20 | ug/L |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L |
| Di-n-octyl phthalate | ND | 5.0 | ug/L |
| Fluoranthene | ND | 5.0 | ug/L |
| Fluorene | ND | 5.0 | ug/L |
| Hexachlorobenzene | ND | 5.0 | ug/L |
| Hexachlorobutadiene | ND | 5.0 | ug/L |
| Hexachlorocyclopenta-diene | ND | 5.0 | ug/L |
| Hexachloroethane | ND | 5.0 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | ug/L |
| Isophorone | ND | 5.0 | ug/L |
| 2-Methylnaphthalene | ND | 5.0 | ug/L |
| 2-Methylphenol | ND | 5.0 | ug/L |
| 4-Methylphenol | ND | 5.0 | ug/L |
| Naphthalene | ND | 5.0 | ug/L |
| 2-Nitroaniline | ND | 20 | ug/L |
| 3-Nitroaniline | ND | 20 | ug/L |
| 4-Nitroaniline | ND | 20 | ug/L |
| Nitrobenzene | ND | 4.0 | ug/L |
| 2-Nitrophenol | ND | 5.0 | ug/L |
| 4-Nitrophenol | ND | 20 | ug/L |
| N-Nitrosodi-n-propyl-amine | ND | 5.0 | ug/L |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L |
| 2,2'-oxybis (1-Chloropropane) | ND | 5.0 | ug/L |
| Pentachlorophenol | ND | 20 | ug/L |
| Phenanthrene | ND | 5.0 | ug/L |
| Phenol | ND | 5.0 | ug/L |
| Pyrene | ND | 5.0 | ug/L |
| 2,4,5-Trichloro-phenol | ND | 5.0 | ug/L |
| 2,4,6-Trichloro-phenol | ND | 4.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 83 | (27 - 111) |
| 2-Fluorobiphenyl | 73 | (28 - 110) |
| Terphenyl-d14 | 73 | (37 - 119) |
| Phenol-d5 | 77 | (10 - 110) |
| 2-Fluorophenol | 76 | (10 - 110) |
| 2,4,6-Tribromophenol | 80 | (22 - 120) |

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW4**

**GC Volatiles**

**Lot-Sample #...:** A8J030133-001 **Work Order #...:** KX4N11AV **Matrix.....:** WG
**Date Sampled...:** 10/02/08 09:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/07/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281083
**Dilution Factor:** 1 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 100 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 15 | (10 - 150) |

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW4**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030133-001 **Work Order #...:** KX4N11AU **Matrix.....:** WG
**Date Sampled...:** 10/02/08 09:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/05/08
**Prep Batch #...:** 8277229
**Dilution Factor:** 1 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **170 B** | **100** | **ug/L** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 47 | (10 - 110) |

**NOTE(S):**

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW4**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030133-001 **Work Order #...:** KX4N11AT **Matrix.....:** WG
**Date Sampled...:** 10/02/08 09:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277228
**Dilution Factor:** 1 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 0.20 | ug/L |
| Aroclor 1221 | ND | 0.20 | ug/L |
| Aroclor 1232 | ND | 0.20 | ug/L |
| Aroclor 1242 | ND | 0.20 | ug/L |
| Aroclor 1248 | ND | 0.20 | ug/L |
| Aroclor 1254 | ND | 0.20 | ug/L |
| Aroclor 1260 | ND | 0.20 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 82 | (27 - 130) |
| Decachlorobiphenyl | 32 | (10 - 127) |

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW4**

**TOTAL Metals**

**Lot-Sample #...:** A8J030133-001 **Matrix.....:** WG
**Date Sampled...:** 10/02/08 09:00 **Date Received..:** 10/03/08

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280015 | | | | | | |
| Mercury | ND | 0.20 | ug/L | SW846 7470A | 10/06-10/07/08 | KX4N11AR |
| | | Dilution Factor: 1 | | | | |
| Antimony | ND | 10.0 | ug/L | SW846 6010B | 10/06/08 | KX4N11AD |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **14.5** | **10.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N11AE** |
| | | Dilution Factor: 1 | | | | |
| Beryllium | ND | 1.0 | ug/L | SW846 6010B | 10/06/08 | KX4N11AF |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 2.0 | ug/L | SW846 6010B | 10/06/08 | KX4N11AG |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **9.2** | **5.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N11AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **11.3 B** | **25.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N11AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **13.5** | **3.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N11AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **10.2 B** | **25.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N11AL** |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 5.0 | ug/L | SW846 6010B | 10/06/08 | KX4N11AM |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 5.0 | ug/L | SW846 6010B | 10/06/08 | KX4N11AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 10.0 | ug/L | SW846 6010B | 10/06/08 | KX4N11AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **46.5** | **20.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N11AQ** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-002 **Work Order #...:** KX4N71AA **Matrix.....:** WG
**Date Sampled...:** 10/02/08 11:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/06/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8280256
**Dilution Factor:** 10 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Acetone | ND | 250 | ug/L |
| Benzene | ND | 10 | ug/L |
| Bromodichloromethane | ND | 10 | ug/L |
| Bromoform | ND | 10 | ug/L |
| Bromomethane | ND | 10 | ug/L |
| 2-Butanone | ND | 250 | ug/L |
| Carbon disulfide | ND | 50 | ug/L |
| Carbon tetrachloride | ND | 10 | ug/L |
| Chlorobenzene | ND | 10 | ug/L |
| Chloroethane | ND | 10 | ug/L |
| Chloroform | ND | 10 | ug/L |
| Chloromethane | ND | 10 | ug/L |
| Cyclohexane | ND | 10 | ug/L |
| Dibromochloromethane | ND | 10 | ug/L |
| 1,2-Dibromo-3-chloro-propane | ND | 10 | ug/L |
| 1,2-Dibromoethane | ND | 10 | ug/L |
| 1,2-Dichlorobenzene | ND | 10 | ug/L |
| 1,3-Dichlorobenzene | ND | 10 | ug/L |
| 1,4-Dichlorobenzene | ND | 10 | ug/L |
| Dichlorodifluoromethane | ND | 10 | ug/L |
| 1,1-Dichloroethane | ND | 10 | ug/L |
| 1,2-Dichloroethane | ND | 10 | ug/L |
| 1,1-Dichloroethene | ND | 10 | ug/L |
| cis-1,2-Dichloroethene | ND | 10 | ug/L |
| trans-1,2-Dichloroethene | ND | 10 | ug/L |
| 1,2-Dichloropropane | ND | 10 | ug/L |
| cis-1,3-Dichloropropene | ND | 10 | ug/L |
| trans-1,3-Dichloropropene | ND | 10 | ug/L |
| Ethylbenzene | ND | 10 | ug/L |
| 2-Hexanone | ND | 500 | ug/L |
| Isopropylbenzene | ND | 50 | ug/L |
| **Methyl acetate** | **7.4 J** | **100** | **ug/L** |
| **Methylene chloride** | **16 J,B** | **50** | **ug/L** |
| Methylcyclohexane | ND | 10 | ug/L |
| 4-Methyl-2-pentanone | ND | 500 | ug/L |
| **Methyl tert-butyl ether** | **5.6 J** | **50** | **ug/L** |
| Styrene | ND | 10 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 10 | ug/L |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-002 **Work Order #...:** KX4N71AA **Matrix.....:** WG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Tetrachloroethene** | **8.7 J** | **10** | **ug/L** |
| Toluene | ND | 10 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 50 | ug/L |
| 1,1,1-Trichloroethane | ND | 10 | ug/L |
| 1,1,2-Trichloroethane | ND | 10 | ug/L |
| Trichloroethene | ND | 10 | ug/L |
| Trichlorofluoromethane | ND | 10 | ug/L |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L |
| Vinyl chloride | ND | 10 | ug/L |
| Xylenes (total) | ND | 20 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 106 | (73 - 122) |
| 1,2-Dichloroethane-d4 | 98 | (61 - 128) |
| Toluene-d8 | 97 | (76 - 110) |
| 4-Bromofluorobenzene | 86 | (74 - 116) |

**NOTE(S):**

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Elevated reporting limits due to matrix interference.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-002 **Work Order #...:** KX4N71AC **Matrix.....:** WG
**Date Sampled...:** 10/02/08 11:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277227
**Dilution Factor:** 5 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Acenaphthene | ND | 25 | ug/L |
| Acenaphthylene | ND | 25 | ug/L |
| Acetophenone | ND | 25 | ug/L |
| Anthracene | ND | 25 | ug/L |
| Atrazine | ND | 25 | ug/L |
| Benzo(a)anthracene | ND | 5.0 | ug/L |
| Benzo(a)pyrene | ND | 10 | ug/L |
| Benzo(b)fluoranthene | ND | 10 | ug/L |
| Benzo(ghi)perylene | ND | 25 | ug/L |
| Benzo(k)fluoranthene | ND | 25 | ug/L |
| Benzaldehyde | ND | 50 | ug/L |
| 1,1'-Biphenyl | ND | 50 | ug/L |
| bis(2-Chloroethoxy) methane | ND | 25 | ug/L |
| bis(2-Chloroethyl)-ether | ND | 20 | ug/L |
| bis(2-Ethylhexyl) phthalate | ND | 25 | ug/L |
| 4-Bromophenyl phenyl ether | ND | 25 | ug/L |
| Butyl benzyl phthalate | ND | 25 | ug/L |
| Caprolactam | ND | 50 | ug/L |
| Carbazole | ND | 50 | ug/L |
| 4-Chloroaniline | ND | 100 | ug/L |
| 4-Chloro-3-methylphenol | ND | 25 | ug/L |
| 2-Chloronaphthalene | ND | 25 | ug/L |
| 2-Chlorophenol | ND | 25 | ug/L |
| 4-Chlorophenyl phenyl ether | ND | 25 | ug/L |
| Chrysene | ND | 25 | ug/L |
| Dibenz(a,h)anthracene | ND | 10 | ug/L |
| Dibenzofuran | ND | 25 | ug/L |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L |
| 2,4-Dichlorophenol | ND | 50 | ug/L |
| Diethyl phthalate | ND | 25 | ug/L |
| **2,4-Dimethylphenol** | **6.5 J** | **25** | **ug/L** |
| Dimethyl phthalate | ND | 25 | ug/L |
| Di-n-butyl phthalate | ND | 25 | ug/L |
| 4,6-Dinitro-2-methylphenol | ND | 100 | ug/L |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-002 **Work Order #...:** KX4N71AC **Matrix.....:** WG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 2,4-Dinitrophenol | ND | 100 | ug/L |
| 2,4-Dinitrotoluene | ND | 25 | ug/L |
| 2,6-Dinitrotoluene | ND | 25 | ug/L |
| Di-n-octyl phthalate | ND | 25 | ug/L |
| Fluoranthene | ND | 25 | ug/L |
| Fluorene | ND | 25 | ug/L |
| Hexachlorobenzene | ND | 25 | ug/L |
| Hexachlorobutadiene | ND | 25 | ug/L |
| Hexachlorocyclopenta-diene | ND | 25 | ug/L |
| Hexachloroethane | ND | 25 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 10 | ug/L |
| Isophorone | ND | 25 | ug/L |
| 2-Methylnaphthalene | ND | 25 | ug/L |
| 2-Methylphenol | ND | 25 | ug/L |
| 4-Methylphenol | ND | 25 | ug/L |
| Naphthalene | ND | 25 | ug/L |
| 2-Nitroaniline | ND | 100 | ug/L |
| 3-Nitroaniline | ND | 100 | ug/L |
| 4-Nitroaniline | ND | 100 | ug/L |
| Nitrobenzene | ND | 20 | ug/L |
| 2-Nitrophenol | ND | 25 | ug/L |
| 4-Nitrophenol | ND | 100 | ug/L |
| N-Nitrosodi-n-propyl-amine | ND | 25 | ug/L |
| N-Nitrosodiphenylamine | ND | 25 | ug/L |
| 2,2'-oxybis (1-Chloropropane) | ND | 25 | ug/L |
| Pentachlorophenol | ND | 100 | ug/L |
| Phenanthrene | ND | 25 | ug/L |
| Phenol | ND | 25 | ug/L |
| Pyrene | ND | 25 | ug/L |
| 2,4,5-Trichloro-phenol | ND | 25 | ug/L |
| 2,4,6-Trichloro-phenol | ND | 20 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 81 DIL | (27 - 111) |
| 2-Fluorobiphenyl | 67 DIL | (28 - 110) |
| Terphenyl-d14 | 29 DIL,* | (37 - 119) |
| Phenol-d5 | 67 DIL | (10 - 110) |
| 2-Fluorophenol | 54 DIL | (10 - 110) |
| 2,4,6-Tribromophenol | 84 DIL | (22 - 120) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-002 **Work Order #...:** KX4N71AC **Matrix.....:** WG

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3**

**GC Volatiles**

**Lot-Sample #...:** A8J030133-002 **Work Order #...:** KX4N71AV **Matrix.....:** WG
**Date Sampled...:** 10/02/08 11:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/07/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281083
**Dilution Factor:** 1 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 100 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 85 | (10 - 150) |

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030133-002 **Work Order #...:** KX4N71AU **Matrix.....:** WG
**Date Sampled...:** 10/02/08 11:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277229
**Dilution Factor:** 10 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **3400 B** | **1000** | **ug/L** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 51 DIL | (10 - 110) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030133-002 **Work Order #...:** KX4N71AT **Matrix.....:** WG
**Date Sampled...:** 10/02/08 11:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277228
**Dilution Factor:** 1 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 0.20 | ug/L |
| Aroclor 1221 | ND | 0.20 | ug/L |
| Aroclor 1232 | ND | 0.20 | ug/L |
| Aroclor 1242 | ND | 0.20 | ug/L |
| Aroclor 1248 | ND | 0.20 | ug/L |
| Aroclor 1254 | ND | 0.20 | ug/L |
| Aroclor 1260 | ND | 0.20 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 44 | (27 - 130) |
| Decachlorobiphenyl | 3.3 * | (10 - 127) |

**NOTE(S):**

* Surrogate recovery is outside stated control limits.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3**

**TOTAL Metals**

**Lot-Sample #...:** A8J030133-002 **Matrix.....:** WG
**Date Sampled...:** 10/02/08 11:50 **Date Received..:** 10/03/08

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280015 | | | | | | |
| Mercury | ND | 0.20 | ug/L | SW846 7470A | 10/06-10/07/08 | KX4N71AR |
| | | Dilution Factor: 1 | | | | |
| **Antimony** | **3.7 B,J** | **10.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AD** |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **18.7** | **10.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **1.1** | **1.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AF** |
| | | Dilution Factor: 1 | | | | |
| **Cadmium** | **1.5 B** | **2.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AG** |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **81.3** | **5.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **29.4** | **25.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **106** | **3.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **442** | **25.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AL** |
| | | Dilution Factor: 1 | | | | |
| **Selenium** | **6.0** | **5.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AM** |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 5.0 | ug/L | SW846 6010B | 10/06/08 | KX4N71AN |
| | | Dilution Factor: 1 | | | | |
| **Thallium** | **6.2 B** | **10.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AP** |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **181** | **20.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N71AQ** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-003 **Work Order #...:** KX4N81AA **Matrix.....:** WG
**Date Sampled...:** 10/02/08 13:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/06/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8280256
**Dilution Factor:** 1 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **2.7 J** | **25** | **ug/L** |
| Benzene | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 1.0 | ug/L |
| 2-Butanone | ND | 25 | ug/L |
| Carbon disulfide | ND | 5.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chloroethane | ND | 1.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 1.0 | ug/L |
| Cyclohexane | ND | 1.0 | ug/L |
| Dibromochloromethane | ND | 1.0 | ug/L |
| 1,2-Dibromo-3-chloro-propane | ND | 1.0 | ug/L |
| 1,2-Dibromoethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/L |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| 2-Hexanone | ND | 50 | ug/L |
| Isopropylbenzene | ND | 5.0 | ug/L |
| Methyl acetate | ND | 10 | ug/L |
| Methylene chloride | ND | 5.0 | ug/L |
| Methylcyclohexane | ND | 1.0 | ug/L |
| 4-Methyl-2-pentanone | ND | 50 | ug/L |
| Methyl tert-butyl ether | ND | 5.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-003 **Work Order #...:** KX4N81AA **Matrix.....:** WG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 2.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 106 | (73 - 122) |
| 1,2-Dichloroethane-d4 | 101 | (61 - 128) |
| Toluene-d8 | 95 | (76 - 110) |
| 4-Bromofluorobenzene | 87 | (74 - 116) |

**NOTE(S):**

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-003 **Work Order #...:** KX4N81AC **Matrix.....:** WG
**Date Sampled...:** 10/02/08 13:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277227
**Dilution Factor:** 1 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Acenaphthene | ND | 5.0 | ug/L |
| Acenaphthylene | ND | 5.0 | ug/L |
| Acetophenone | ND | 5.0 | ug/L |
| **Anthracene** | **0.36 J** | **5.0** | **ug/L** |
| Atrazine | ND | 5.0 | ug/L |
| Benzo(a)anthracene | ND | 1.0 | ug/L |
| Benzo(a)pyrene | ND | 2.0 | ug/L |
| Benzo(b)fluoranthene | ND | 2.0 | ug/L |
| Benzo(ghi)perylene | ND | 5.0 | ug/L |
| Benzo(k)fluoranthene | ND | 5.0 | ug/L |
| Benzaldehyde | ND | 10 | ug/L |
| 1,1'-Biphenyl | ND | 10 | ug/L |
| bis(2-Chloroethoxy) methane | ND | 5.0 | ug/L |
| bis(2-Chloroethyl)- ether | ND | 4.0 | ug/L |
| bis(2-Ethylhexyl) phthalate | ND | 5.0 | ug/L |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L |
| Butyl benzyl phthalate | ND | 5.0 | ug/L |
| Caprolactam | ND | 10 | ug/L |
| Carbazole | ND | 10 | ug/L |
| 4-Chloroaniline | ND | 20 | ug/L |
| 4-Chloro-3-methylphenol | ND | 5.0 | ug/L |
| 2-Chloronaphthalene | ND | 5.0 | ug/L |
| 2-Chlorophenol | ND | 5.0 | ug/L |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L |
| Chrysene | ND | 5.0 | ug/L |
| Dibenz(a,h)anthracene | ND | 2.0 | ug/L |
| Dibenzofuran | ND | 5.0 | ug/L |
| 3,3'-Dichlorobenzidine | ND | 4.0 | ug/L |
| 2,4-Dichlorophenol | ND | 10 | ug/L |
| Diethyl phthalate | ND | 5.0 | ug/L |
| 2,4-Dimethylphenol | ND | 5.0 | ug/L |
| Dimethyl phthalate | ND | 5.0 | ug/L |
| **Di-n-butyl phthalate** | **7.1** | **5.0** | **ug/L** |
| 4,6-Dinitro- 2-methylphenol | ND | 20 | ug/L |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-003 **Work Order #...:** KX4N81AC **Matrix.....:** WG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 2,4-Dinitrophenol | ND | 20 | ug/L |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L |
| Di-n-octyl phthalate | ND | 5.0 | ug/L |
| Fluoranthene | ND | 5.0 | ug/L |
| Fluorene | ND | 5.0 | ug/L |
| Hexachlorobenzene | ND | 5.0 | ug/L |
| Hexachlorobutadiene | ND | 5.0 | ug/L |
| Hexachlorocyclopenta-diene | ND | 5.0 | ug/L |
| Hexachloroethane | ND | 5.0 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | ug/L |
| Isophorone | ND | 5.0 | ug/L |
| 2-Methylnaphthalene | ND | 5.0 | ug/L |
| 2-Methylphenol | ND | 5.0 | ug/L |
| 4-Methylphenol | ND | 5.0 | ug/L |
| Naphthalene | ND | 5.0 | ug/L |
| 2-Nitroaniline | ND | 20 | ug/L |
| 3-Nitroaniline | ND | 20 | ug/L |
| 4-Nitroaniline | ND | 20 | ug/L |
| Nitrobenzene | ND | 4.0 | ug/L |
| 2-Nitrophenol | ND | 5.0 | ug/L |
| 4-Nitrophenol | ND | 20 | ug/L |
| N-Nitrosodi-n-propyl-amine | ND | 5.0 | ug/L |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L |
| 2,2'-oxybis (1-Chloropropane) | ND | 5.0 | ug/L |
| Pentachlorophenol | ND | 20 | ug/L |
| Phenanthrene | ND | 5.0 | ug/L |
| Phenol | ND | 5.0 | ug/L |
| Pyrene | ND | 5.0 | ug/L |
| 2,4,5-Trichloro-phenol | ND | 5.0 | ug/L |
| 2,4,6-Trichloro-phenol | ND | 4.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 76 | (27 - 111) |
| 2-Fluorobiphenyl | 68 | (28 - 110) |
| Terphenyl-d14 | 65 | (37 - 119) |
| Phenol-d5 | 59 | (10 - 110) |
| 2-Fluorophenol | 44 | (10 - 110) |
| 2,4,6-Tribromophenol | 67 | (22 - 120) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-003 **Work Order #...:** KX4N81AC **Matrix.....:** WG

**NOTE(S):**

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2**

**GC Volatiles**

**Lot-Sample #...:** A8J030133-003 **Work Order #...:** KX4N81AV **Matrix.....:** WG
**Date Sampled...:** 10/02/08 13:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/07/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281083
**Dilution Factor:** 1 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 100 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 79 | (10 - 150) |

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030133-003 **Work Order #...:** KX4N81AU **Matrix.....:** WG
**Date Sampled...:** 10/02/08 13:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/05/08
**Prep Batch #...:** 8277229
**Dilution Factor:** 1 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **720 B** | **100** | **ug/L** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 57 | (10 - 110) |

**NOTE(S):**

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030133-003 **Work Order #...:** KX4N81AT **Matrix.....:** WG
**Date Sampled...:** 10/02/08 13:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277228
**Dilution Factor:** 1 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 0.20 | ug/L |
| Aroclor 1221 | ND | 0.20 | ug/L |
| Aroclor 1232 | ND | 0.20 | ug/L |
| Aroclor 1242 | ND | 0.20 | ug/L |
| Aroclor 1248 | ND | 0.20 | ug/L |
| Aroclor 1254 | ND | 0.20 | ug/L |
| Aroclor 1260 | ND | 0.20 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 84 | (27 - 130) |
| Decachlorobiphenyl | 33 | (10 - 127) |

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2**

**TOTAL Metals**

**Lot-Sample #...:** A8J030133-003 **Matrix.....:** WG
**Date Sampled...:** 10/02/08 13:50 **Date Received..:** 10/03/08

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280015 | | | | | | |
| Mercury | ND | 0.20 | ug/L | SW846 7470A | 10/06-10/07/08 | KX4N81AR |
| | | Dilution Factor: 1 | | | | |
| Antimony | ND | 10.0 | ug/L | SW846 6010B | 10/06/08 | KX4N81AD |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **6.7 B** | **10.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N81AE** |
| | | Dilution Factor: 1 | | | | |
| Beryllium | ND | 1.0 | ug/L | SW846 6010B | 10/06/08 | KX4N81AF |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 2.0 | ug/L | SW846 6010B | 10/06/08 | KX4N81AG |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **3.4 B** | **5.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N81AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **18.1 B** | **25.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N81AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **6.0** | **3.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N81AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **30.9** | **25.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N81AL** |
| | | Dilution Factor: 1 | | | | |
| **Selenium** | **4.5 B** | **5.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N81AM** |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 5.0 | ug/L | SW846 6010B | 10/06/08 | KX4N81AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 10.0 | ug/L | SW846 6010B | 10/06/08 | KX4N81AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **30.1** | **20.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N81AQ** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-004 **Work Order #...:** KX4N91AA **Matrix.....:** WG
**Date Sampled...:** 10/02/08 15:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/06/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8280256
**Dilution Factor:** 1 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **2.4 J** | **25** | **ug/L** |
| Benzene | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 1.0 | ug/L |
| 2-Butanone | ND | 25 | ug/L |
| Carbon disulfide | ND | 5.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chloroethane | ND | 1.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 1.0 | ug/L |
| Cyclohexane | ND | 1.0 | ug/L |
| Dibromochloromethane | ND | 1.0 | ug/L |
| 1,2-Dibromo-3-chloro-propane | ND | 1.0 | ug/L |
| 1,2-Dibromoethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/L |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| 2-Hexanone | ND | 50 | ug/L |
| Isopropylbenzene | ND | 5.0 | ug/L |
| Methyl acetate | ND | 10 | ug/L |
| Methylene chloride | ND | 5.0 | ug/L |
| Methylcyclohexane | ND | 1.0 | ug/L |
| 4-Methyl-2-pentanone | ND | 50 | ug/L |
| Methyl tert-butyl ether | ND | 5.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-004 **Work Order #...:** KX4N91AA **Matrix.....:** WG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 2.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 104 | (73 - 122) |
| 1,2-Dichloroethane-d4 | 97 | (61 - 128) |
| Toluene-d8 | 97 | (76 - 110) |
| 4-Bromofluorobenzene | 88 | (74 - 116) |

**NOTE(S):**

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-004 **Work Order #...:** KX4N91AC **Matrix.....:** WG
**Date Sampled...:** 10/02/08 15:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277227
**Dilution Factor:** 1 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Acenaphthene | ND | 5.0 | ug/L |
| Acenaphthylene | ND | 5.0 | ug/L |
| Acetophenone | ND | 5.0 | ug/L |
| Anthracene | ND | 5.0 | ug/L |
| Atrazine | ND | 5.0 | ug/L |
| Benzo(a)anthracene | ND | 1.0 | ug/L |
| Benzo(a)pyrene | ND | 2.0 | ug/L |
| Benzo(b)fluoranthene | ND | 2.0 | ug/L |
| Benzo(ghi)perylene | ND | 5.0 | ug/L |
| Benzo(k)fluoranthene | ND | 5.0 | ug/L |
| Benzaldehyde | ND | 10 | ug/L |
| 1,1'-Biphenyl | ND | 10 | ug/L |
| bis(2-Chloroethoxy) methane | ND | 5.0 | ug/L |
| bis(2-Chloroethyl)- ether | ND | 4.0 | ug/L |
| bis(2-Ethylhexyl) phthalate | ND | 5.0 | ug/L |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L |
| Butyl benzyl phthalate | ND | 5.0 | ug/L |
| **Caprolactam** | **2.4 J** | **10** | **ug/L** |
| Carbazole | ND | 10 | ug/L |
| 4-Chloroaniline | ND | 20 | ug/L |
| 4-Chloro-3-methylphenol | ND | 5.0 | ug/L |
| 2-Chloronaphthalene | ND | 5.0 | ug/L |
| 2-Chlorophenol | ND | 5.0 | ug/L |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L |
| Chrysene | ND | 5.0 | ug/L |
| Dibenz(a,h)anthracene | ND | 2.0 | ug/L |
| Dibenzofuran | ND | 5.0 | ug/L |
| 3,3'-Dichlorobenzidine | ND | 4.0 | ug/L |
| 2,4-Dichlorophenol | ND | 10 | ug/L |
| Diethyl phthalate | ND | 5.0 | ug/L |
| 2,4-Dimethylphenol | ND | 5.0 | ug/L |
| Dimethyl phthalate | ND | 5.0 | ug/L |
| **Di-n-butyl phthalate** | **1.2 J** | **5.0** | **ug/L** |
| 4,6-Dinitro- 2-methylphenol | ND | 20 | ug/L |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-004 **Work Order #...:** KX4N91AC **Matrix.....:** WG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 2,4-Dinitrophenol | ND | 20 | ug/L |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L |
| Di-n-octyl phthalate | ND | 5.0 | ug/L |
| **Fluoranthene** | **0.36 J** | **5.0** | **ug/L** |
| Fluorene | ND | 5.0 | ug/L |
| Hexachlorobenzene | ND | 5.0 | ug/L |
| Hexachlorobutadiene | ND | 5.0 | ug/L |
| Hexachlorocyclopenta-diene | ND | 5.0 | ug/L |
| Hexachloroethane | ND | 5.0 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | ug/L |
| Isophorone | ND | 5.0 | ug/L |
| 2-Methylnaphthalene | ND | 5.0 | ug/L |
| 2-Methylphenol | ND | 5.0 | ug/L |
| 4-Methylphenol | ND | 5.0 | ug/L |
| Naphthalene | ND | 5.0 | ug/L |
| 2-Nitroaniline | ND | 20 | ug/L |
| 3-Nitroaniline | ND | 20 | ug/L |
| 4-Nitroaniline | ND | 20 | ug/L |
| Nitrobenzene | ND | 4.0 | ug/L |
| 2-Nitrophenol | ND | 5.0 | ug/L |
| 4-Nitrophenol | ND | 20 | ug/L |
| N-Nitrosodi-n-propyl-amine | ND | 5.0 | ug/L |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L |
| 2,2'-oxybis (1-Chloropropane) | ND | 5.0 | ug/L |
| Pentachlorophenol | ND | 20 | ug/L |
| **Phenanthrene** | **0.25 J** | **5.0** | **ug/L** |
| Phenol | ND | 5.0 | ug/L |
| **Pyrene** | **0.29 J** | **5.0** | **ug/L** |
| 2,4,5-Trichloro-phenol | ND | 5.0 | ug/L |
| 2,4,6-Trichloro-phenol | ND | 4.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 70 | (27 - 111) |
| 2-Fluorobiphenyl | 63 | (28 - 110) |
| Terphenyl-d14 | 61 | (37 - 119) |
| Phenol-d5 | 66 | (10 - 110) |
| 2-Fluorophenol | 64 | (10 - 110) |
| 2,4,6-Tribromophenol | 69 | (22 - 120) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030133-004 **Work Order #...:** KX4N91AC **Matrix.....:** WG

**NOTE(S):**

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1**

**GC Volatiles**

**Lot-Sample #...:** A8J030133-004 **Work Order #...:** KX4N91AV **Matrix.....:** WG
**Date Sampled...:** 10/02/08 15:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/07/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281083
**Dilution Factor:** 1 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 100 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 79 | (10 - 150) |

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030133-004 **Work Order #...:** KX4N91AU **Matrix.....:** WG
**Date Sampled...:** 10/02/08 15:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/05/08
**Prep Batch #...:** 8277229
**Dilution Factor:** 1 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **450 B** | **100** | **ug/L** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 59 | (10 - 110) |

**NOTE(S):**

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030133-004 **Work Order #...:** KX4N91AT **Matrix.....:** WG
**Date Sampled...:** 10/02/08 15:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277228
**Dilution Factor:** 1 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 0.20 | ug/L |
| Aroclor 1221 | ND | 0.20 | ug/L |
| Aroclor 1232 | ND | 0.20 | ug/L |
| Aroclor 1242 | ND | 0.20 | ug/L |
| Aroclor 1248 | ND | 0.20 | ug/L |
| Aroclor 1254 | ND | 0.20 | ug/L |
| Aroclor 1260 | ND | 0.20 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 75 | (27 - 130) |
| Decachlorobiphenyl | 25 | (10 - 127) |

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1**

**TOTAL Metals**

**Lot-Sample #...:** A8J030133-004 **Matrix.....:** WG
**Date Sampled...:** 10/02/08 15:15 **Date Received..:** 10/03/08

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280015 | | | | | | |
| Mercury | ND | 0.20 | ug/L | SW846 7470A | 10/06-10/07/08 | KX4N91AR |
| | | Dilution Factor: 1 | | | | |
| Antimony | ND | 10.0 | ug/L | SW846 6010B | 10/06/08 | KX4N91AD |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **15.5** | **10.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N91AE** |
| | | Dilution Factor: 1 | | | | |
| Beryllium | ND | 1.0 | ug/L | SW846 6010B | 10/06/08 | KX4N91AF |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 2.0 | ug/L | SW846 6010B | 10/06/08 | KX4N91AG |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **8.6** | **5.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N91AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **10.0 B** | **25.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N91AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **12.2** | **3.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N91AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **10.1 B** | **25.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N91AL** |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 5.0 | ug/L | SW846 6010B | 10/06/08 | KX4N91AM |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 5.0 | ug/L | SW846 6010B | 10/06/08 | KX4N91AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 10.0 | ug/L | SW846 6010B | 10/06/08 | KX4N91AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **43.4** | **20.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX4N91AQ** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TRIP BLANK**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-005 **Work Order #...:** KX4PA1AA **Matrix.....:** WQ
**Date Sampled...:** 10/02/08 **Date Received..:** 10/03/08
**Prep Date.....:** 10/06/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8280256
**Dilution Factor:** 1 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **2.3 J** | **25** | **ug/L** |
| Benzene | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 1.0 | ug/L |
| 2-Butanone | ND | 25 | ug/L |
| Carbon disulfide | ND | 5.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chloroethane | ND | 1.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 1.0 | ug/L |
| Cyclohexane | ND | 1.0 | ug/L |
| Dibromochloromethane | ND | 1.0 | ug/L |
| 1,2-Dibromo-3-chloro-propane | ND | 1.0 | ug/L |
| 1,2-Dibromoethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/L |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| 2-Hexanone | ND | 50 | ug/L |
| Isopropylbenzene | ND | 5.0 | ug/L |
| Methyl acetate | ND | 10 | ug/L |
| Methylene chloride | ND | 5.0 | ug/L |
| Methylcyclohexane | ND | 1.0 | ug/L |
| 4-Methyl-2-pentanone | ND | 50 | ug/L |
| Methyl tert-butyl ether | ND | 5.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TRIP BLANK**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030133-005 **Work Order #...:** KX4PA1AA **Matrix.....:** WQ

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 2.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 106 | (73 - 122) |
| 1,2-Dichloroethane-d4 | 99 | (61 - 128) |
| Toluene-d8 | 93 | (76 - 110) |
| 4-Bromofluorobenzene | 87 | (74 - 116) |

**NOTE(S):**

J Estimated result. Result is less than RL.

# *QUALITY CONTROL SECTION*

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX8MX1AA **Matrix.....:** WATER
**MB Lot-Sample #:** A8J060000-256
**Prep Date.....:** 10/06/08
**Analysis Date..:** 10/06/08 **Prep Batch #...:** 8280256
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Acetone | ND | 25 | ug/L | SW846 8260B |
| Benzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromoform | ND | 1.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 1.0 | ug/L | SW846 8260B |
| 2-Butanone | ND | 25 | ug/L | SW846 8260B |
| Carbon disulfide | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 1.0 | ug/L | SW846 8260B |
| Chlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Chloroform | ND | 1.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Cyclohexane | ND | 1.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dibromo-3-chloro-propane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| 2-Hexanone | ND | 50 | ug/L | SW846 8260B |
| Isopropylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methyl acetate | ND | 10 | ug/L | SW846 8260B |
| **Methylene chloride** | **2.0 J** | **5.0** | **ug/L** | **SW846 8260B** |
| Methylcyclohexane | ND | 1.0 | ug/L | SW846 8260B |
| 4-Methyl-2-pentanone | ND | 50 | ug/L | SW846 8260B |
| Methyl tert-butyl ether | ND | 5.0 | ug/L | SW846 8260B |
| Styrene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 1.0 | ug/L | SW846 8260B |
| Toluene | ND | 1.0 | ug/L | SW846 8260B |

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## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX8MX1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| **1,2,4-Trichloro-benzene** | **0.20 J** | **5.0** | **ug/L** | **SW846 8260B** |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 1.0 | ug/L | SW846 8260B |
| Xylenes (total) | ND | 2.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 102 | (73 - 122) |
| 1,2-Dichloroethane-d4 | 100 | (61 - 128) |
| Toluene-d8 | 95 | (76 - 110) |
| 4-Bromofluorobenzene | 89 | (74 - 116) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

**METHOD BLANK REPORT**

**GC/MS Semivolatiles**

**Client Lot #...:** A8J030133 **Work Order #...:** KX4VC1AA **Matrix.....:** WATER
**MB Lot-Sample #:** A8J030000-227
**Prep Date.....:** 10/03/08
**Analysis Date..:** 10/06/08 **Prep Batch #...:** 8277227
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | ug/L | SW846 8270C |
| Acenaphthylene | ND | 5.0 | ug/L | SW846 8270C |
| Acetophenone | ND | 5.0 | ug/L | SW846 8270C |
| Anthracene | ND | 5.0 | ug/L | SW846 8270C |
| Atrazine | ND | 5.0 | ug/L | SW846 8270C |
| Benzo(a)anthracene | ND | 1.0 | ug/L | SW846 8270C |
| Benzo(a)pyrene | ND | 2.0 | ug/L | SW846 8270C |
| Benzo(b)fluoranthene | ND | 2.0 | ug/L | SW846 8270C |
| Benzo(ghi)perylene | ND | 5.0 | ug/L | SW846 8270C |
| Benzo(k)fluoranthene | ND | 5.0 | ug/L | SW846 8270C |
| Benzaldehyde | ND | 10 | ug/L | SW846 8270C |
| 1,1'-Biphenyl | ND | 10 | ug/L | SW846 8270C |
| bis(2-Chloroethoxy) methane | ND | 5.0 | ug/L | SW846 8270C |
| bis(2-Chloroethyl)- ether | ND | 4.0 | ug/L | SW846 8270C |
| bis(2-Ethylhexyl) phthalate | ND | 5.0 | ug/L | SW846 8270C |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | SW846 8270C |
| Butyl benzyl phthalate | ND | 5.0 | ug/L | SW846 8270C |
| Caprolactam | ND | 10 | ug/L | SW846 8270C |
| Carbazole | ND | 10 | ug/L | SW846 8270C |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270C |
| 4-Chloro-3-methylphenol | ND | 5.0 | ug/L | SW846 8270C |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | SW846 8270C |
| 2-Chlorophenol | ND | 5.0 | ug/L | SW846 8270C |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | SW846 8270C |
| Chrysene | ND | 5.0 | ug/L | SW846 8270C |
| Dibenz(a,h)anthracene | ND | 2.0 | ug/L | SW846 8270C |
| Dibenzofuran | ND | 5.0 | ug/L | SW846 8270C |
| 3,3'-Dichlorobenzidine | ND | 4.0 | ug/L | SW846 8270C |
| 2,4-Dichlorophenol | ND | 10 | ug/L | SW846 8270C |
| Diethyl phthalate | ND | 5.0 | ug/L | SW846 8270C |
| 2,4-Dimethylphenol | ND | 5.0 | ug/L | SW846 8270C |
| Dimethyl phthalate | ND | 5.0 | ug/L | SW846 8270C |
| Di-n-butyl phthalate | ND | 5.0 | ug/L | SW846 8270C |
| 4,6-Dinitro- 2-methylphenol | ND | 20 | ug/L | SW846 8270C |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270C |

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**METHOD BLANK REPORT**

**GC/MS Semivolatiles**

**Client Lot #...:** A8J030133 **Work Order #...:** KX4VC1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | SW846 8270C |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | SW846 8270C |
| Di-n-octyl phthalate | ND | 5.0 | ug/L | SW846 8270C |
| Fluoranthene | ND | 5.0 | ug/L | SW846 8270C |
| Fluorene | ND | 5.0 | ug/L | SW846 8270C |
| Hexachlorobenzene | ND | 5.0 | ug/L | SW846 8270C |
| Hexachlorobutadiene | ND | 5.0 | ug/L | SW846 8270C |
| Hexachlorocyclopenta-diene | ND | 5.0 | ug/L | SW846 8270C |
| Hexachloroethane | ND | 5.0 | ug/L | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | ug/L | SW846 8270C |
| Isophorone | ND | 5.0 | ug/L | SW846 8270C |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | SW846 8270C |
| 2-Methylphenol | ND | 5.0 | ug/L | SW846 8270C |
| 4-Methylphenol | ND | 5.0 | ug/L | SW846 8270C |
| Naphthalene | ND | 5.0 | ug/L | SW846 8270C |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270C |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270C |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270C |
| Nitrobenzene | ND | 4.0 | ug/L | SW846 8270C |
| 2-Nitrophenol | ND | 5.0 | ug/L | SW846 8270C |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270C |
| N-Nitrosodi-n-propyl-amine | ND | 5.0 | ug/L | SW846 8270C |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | SW846 8270C |
| 2,2'-oxybis (1-Chloropropane) | ND | 5.0 | ug/L | SW846 8270C |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270C |
| Phenanthrene | ND | 5.0 | ug/L | SW846 8270C |
| Phenol | ND | 5.0 | ug/L | SW846 8270C |
| Pyrene | ND | 5.0 | ug/L | SW846 8270C |
| 2,4,5-Trichloro-phenol | ND | 5.0 | ug/L | SW846 8270C |
| 2,4,6-Trichloro-phenol | ND | 4.0 | ug/L | SW846 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 83 | (27 - 111) |
| 2-Fluorobiphenyl | 72 | (28 - 110) |
| Terphenyl-d14 | 95 | (37 - 119) |
| Phenol-d5 | 71 | (10 - 110) |
| 2-Fluorophenol | 69 | (10 - 110) |
| 2,4,6-Tribromophenol | 67 | (22 - 120) |

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**METHOD BLANK REPORT**

**GC/MS Semivolatiles**

**Client Lot #...:** A8J030133 **Work Order #...:** KX4VC1AA **Matrix.....:** WATER

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC Volatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX9N01AA **Matrix.....:** WATER
**MB Lot-Sample #:** A8J070000-083

**Prep Date.....:** 10/07/08
**Analysis Date..:** 10/07/08 **Prep Batch #...:** 8281083
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| TPH (as Gasoline) | ND | 100 | ug/L | SW846 8015B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 84 | (10 - 150) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX4VQ1AA **Matrix.....:** WATER
**MB Lot-Sample #:** A8J030000-229

**Prep Date.....:** 10/03/08
**Analysis Date..:** 10/07/08 **Prep Batch #...:** 8277229
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| **TPH (as Diesel)** | **33 J** | **100** | **ug/L** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 66 | (10 - 110) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

## METHOD BLANK REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX4VE1AA **Matrix.....:** WATER
**MB Lot-Sample #:** A8J030000-228

**Prep Date.....:** 10/03/08
**Analysis Date..:** 10/06/08 **Prep Batch #...:** 8277228
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Aroclor 1016 | ND | 0.20 | ug/L | SW846 8082 |
| Aroclor 1221 | ND | 0.20 | ug/L | SW846 8082 |
| Aroclor 1232 | ND | 0.20 | ug/L | SW846 8082 |
| Aroclor 1242 | ND | 0.20 | ug/L | SW846 8082 |
| Aroclor 1248 | ND | 0.20 | ug/L | SW846 8082 |
| Aroclor 1254 | ND | 0.20 | ug/L | SW846 8082 |
| Aroclor 1260 | ND | 0.20 | ug/L | SW846 8082 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 74 | (27 - 130) |
| Decachlorobiphenyl | 40 | (10 - 127) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

## TOTAL Metals

**Client Lot #...:** A8J030133 **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **MB Lot-Sample #:** A8J060000-015 **Prep Batch #...:** 8280015 | | | | | | |
| Mercury | ND | 0.20 | ug/L | SW846 7470A | 10/06-10/07/08 | KX7131AP |
| | | Dilution Factor: 1 | | | | |
| **Antimony** | **2.0 B** | **10.0** | **ug/L** | **SW846 6010B** | **10/06/08** | **KX7131AA** |
| | | Dilution Factor: 1 | | | | |
| Arsenic | ND | 10.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AC |
| | | Dilution Factor: 1 | | | | |
| Beryllium | ND | 1.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AD |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 2.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AE |
| | | Dilution Factor: 1 | | | | |
| Chromium | ND | 5.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AF |
| | | Dilution Factor: 1 | | | | |
| Copper | ND | 25.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AG |
| | | Dilution Factor: 1 | | | | |
| Lead | ND | 3.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AH |
| | | Dilution Factor: 1 | | | | |
| Nickel | ND | 25.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AJ |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 5.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AK |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 5.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AL |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 10.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AM |
| | | Dilution Factor: 1 | | | | |
| Zinc | ND | 20.0 | ug/L | SW846 6010B | 10/06/08 | KX7131AN |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX8MX1AC-LCS **Matrix.....:** WATER
**LCS Lot-Sample#:** A8J060000-256 KX8MX1AD-LCSD
**Prep Date.....:** 10/06/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8280256
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **Benzene** | **83** | **(80 - 116)** | | | **SW846 8260B** |
| | **91** | **(80 - 116)** | **9.4** | **(0-20)** | **SW846 8260B** |
| **Chlorobenzene** | **90** | **(76 - 117)** | | | **SW846 8260B** |
| | **94** | **(76 - 117)** | **4.5** | **(0-20)** | **SW846 8260B** |
| **1,1-Dichloroethene** | **110** | **(63 - 130)** | | | **SW846 8260B** |
| | **117** | **(63 - 130)** | **5.9** | **(0-20)** | **SW846 8260B** |
| **Toluene** | **87** | **(74 - 119)** | | | **SW846 8260B** |
| | **93** | **(74 - 119)** | **6.6** | **(0-20)** | **SW846 8260B** |
| **Trichloroethene** | **89** | **(75 - 122)** | | | **SW846 8260B** |
| | **92** | **(75 - 122)** | **4.1** | **(0-20)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 100 | (73 - 122) |
| | 100 | (73 - 122) |
| 1,2-Dichloroethane-d4 | 95 | (61 - 128) |
| | 96 | (61 - 128) |
| Toluene-d8 | 98 | (76 - 110) |
| | 98 | (76 - 110) |
| 4-Bromofluorobenzene | 100 | (74 - 116) |
| | 97 | (74 - 116) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Semivolatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX4VC1AC-LCS **Matrix.....:** WATER
**LCS Lot-Sample#:** A8J030000-227 KX4VC1AD-LCSD
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277227
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **Acenaphthene** | **85** | **(40 - 110)** | | | **SW846 8270C** |
| | **91** | **(40 - 110)** | **7.3** | **(0-30)** | **SW846 8270C** |
| **1,2,4-Trichloro-benzene** | **73** | **(25 - 110)** | | | **SW846 8270C** |
| | **78** | **(25 - 110)** | **5.5** | **(0-30)** | **SW846 8270C** |
| **1,4-Dichlorobenzene** | **79** | **(19 - 110)** | | | **SW846 8270C** |
| | **83** | **(19 - 110)** | **5.8** | **(0-30)** | **SW846 8270C** |
| **4-Chloro-3-methylphenol** | **83** | **(39 - 110)** | | | **SW846 8270C** |
| | **87** | **(39 - 110)** | **5.2** | **(0-30)** | **SW846 8270C** |
| **2-Chlorophenol** | **77** | **(27 - 110)** | | | **SW846 8270C** |
| | **84** | **(27 - 110)** | **8.2** | **(0-30)** | **SW846 8270C** |
| **2,4-Dinitrotoluene** | **91** | **(52 - 123)** | | | **SW846 8270C** |
| | **97** | **(52 - 123)** | **7.1** | **(0-30)** | **SW846 8270C** |
| **4-Nitrophenol** | **76** | **(12 - 130)** | | | **SW846 8270C** |
| | **84** | **(12 - 130)** | **9.9** | **(0-30)** | **SW846 8270C** |
| **N-Nitrosodi-n-propyl-amine** | **89** | **(37 - 121)** | | | **SW846 8270C** |
| | **96** | **(37 - 121)** | **8.3** | **(0-30)** | **SW846 8270C** |
| **Pentachlorophenol** | **60** | **(26 - 110)** | | | **SW846 8270C** |
| | **63** | **(26 - 110)** | **5.9** | **(0-30)** | **SW846 8270C** |
| **Phenol** | **76** | **(14 - 112)** | | | **SW846 8270C** |
| | **82** | **(14 - 112)** | **7.1** | **(0-30)** | **SW846 8270C** |
| **Pyrene** | **86** | **(55 - 120)** | | | **SW846 8270C** |
| | **93** | **(55 - 120)** | **7.7** | **(0-30)** | **SW846 8270C** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 92 | (27 - 111) |
| | 99 | (27 - 111) |
| 2-Fluorobiphenyl | 79 | (28 - 110) |
| | 85 | (28 - 110) |
| Terphenyl-d14 | 102 | (37 - 119) |
| | 109 | (37 - 119) |
| Phenol-d5 | 82 | (10 - 110) |
| | 87 | (10 - 110) |
| 2-Fluorophenol | 80 | (10 - 110) |
| | 87 | (10 - 110) |
| 2,4,6-Tribromophenol | 77 | (22 - 120) |

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## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Semivolatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX4VC1AC-LCS **Matrix.....:** WATER
**LCS Lot-Sample#:** A8J030000-227 KX4VC1AD-LCSD

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| | 81 | (22 - 120) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Volatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX9N01AC-LCS **Matrix.....:** WATER
**LCS Lot-Sample#:** A8J070000-083 KX9N01AD-LCSD
**Prep Date.....:** 10/07/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281083
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **TPH (as Gasoline)** | **105** | **(72 - 140)** | | | **SW846 8015B** |
| | **113** | **(72 - 140)** | **7.2** | **(0-20)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 82 | (10 - 150) |
| | 83 | (10 - 150) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX4VQ1AC-LCS **Matrix.....:** WATER
**LCS Lot-Sample#:** A8J030000-229 KX4VQ1AD-LCSD
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/05/08
**Prep Batch #...:** 8277229
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **TPH (as Diesel)** | **119** | **(36 - 124)** | | | **SW846 8015B** |
| | **105** | **(36 - 124)** | **12** | **(0-30)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 68 | (10 - 110) |
| | 64 | (10 - 110) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX4VE1AC-LCS **Matrix.....:** WATER
**LCS Lot-Sample#:** A8J030000-228 KX4VE1AD-LCSD
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277228
**Dilution Factor:** 5

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **Aroclor 1016** | **86** | **(44 - 119)** | | | **SW846 8082** |
| | **88** | **(44 - 119)** | **3.3** | **(0-30)** | **SW846 8082** |
| **Aroclor 1260** | **79** | **(41 - 118)** | | | **SW846 8082** |
| | **89** | **(41 - 118)** | **12** | **(0-30)** | **SW846 8082** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 90 | (27 - 130) |
| | 93 | (27 - 130) |
| Decachlorobiphenyl | 30 | (10 - 127) |
| | 36 | (10 - 127) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### TOTAL Metals

**Client Lot #...:** A8J030133 **Matrix.....:** WATER

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|
| **LCS Lot-Sample#:** A8J060000-015 **Prep Batch #...:** 8280015 | | | | | |
| Mercury | 106 | (81 - 123) | SW846 7470A | 10/06-10/07/08 | KX7131A5 |
| | | Dilution Factor: 1 | | | |
| Antimony | 88 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131AQ |
| | | Dilution Factor: 1 | | | |
| Arsenic | 90 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131AR |
| | | Dilution Factor: 1 | | | |
| Beryllium | 88 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131AT |
| | | Dilution Factor: 1 | | | |
| Cadmium | 91 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131AU |
| | | Dilution Factor: 1 | | | |
| Chromium | 90 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131AV |
| | | Dilution Factor: 1 | | | |
| Copper | 92 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131AW |
| | | Dilution Factor: 1 | | | |
| Lead | 90 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131AX |
| | | Dilution Factor: 1 | | | |
| Nickel | 91 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131A0 |
| | | Dilution Factor: 1 | | | |
| Selenium | 93 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131A1 |
| | | Dilution Factor: 1 | | | |
| Silver | 103 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131A2 |
| | | Dilution Factor: 1 | | | |
| Thallium | 88 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131A3 |
| | | Dilution Factor: 1 | | | |
| Zinc | 93 | (80 - 120) | SW846 6010B | 10/06/08 | KX7131A4 |
| | | Dilution Factor: 1 | | | |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC Volatiles

**Client Lot #...:** A8J030133 **Work Order #...:** KX4N11E3-MS **Matrix.....:** WG
**MS Lot-Sample #:** A8J030133-001 KX4N11E4-MSD
**Date Sampled...:** 10/02/08 09:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/07/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281083
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **TPH (as Gasoline)** | **92** | **(63 - 143)** | | | **SW846 8015B** |
| | **89** | **(63 - 143)** | **2.8** | **(0-20)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 78 | (10 - 150) |
| | 78 | (10 - 150) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### TOTAL Metals

**Client Lot #...:** A8J030133 **Matrix.....:** WG
**Date Sampled...:** 10/02/08 09:00 **Date Received..:** 10/03/08

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|---|
| **MS Lot-Sample #:** A8J030133-001 **Prep Batch #...:** 8280015 | | | | | | | |
| Mercury | 104 | (69 - 134) | | | SW846 7470A | 10/06-10/07/08 | KX4N11CP |
| | 91 | (69 - 134) | 13 | (0-20) | SW846 7470A | 10/06-10/07/08 | KX4N11CQ |
| | | Dilution Factor: 1 | | | | | |
| Antimony | 91 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11AW |
| | 90 | (75 - 125) | 1.5 | (0-20) | SW846 6010B | 10/06/08 | KX4N11AX |
| | | Dilution Factor: 1 | | | | | |
| Arsenic | 91 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11A0 |
| | 91 | (75 - 125) | 0.83 | (0-20) | SW846 6010B | 10/06/08 | KX4N11A1 |
| | | Dilution Factor: 1 | | | | | |
| Beryllium | 90 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11A2 |
| | 89 | (75 - 125) | 1.1 | (0-20) | SW846 6010B | 10/06/08 | KX4N11A3 |
| | | Dilution Factor: 1 | | | | | |
| Cadmium | 89 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11A4 |
| | 88 | (75 - 125) | 1.1 | (0-20) | SW846 6010B | 10/06/08 | KX4N11A5 |
| | | Dilution Factor: 1 | | | | | |
| Chromium | 91 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11A6 |
| | 89 | (75 - 125) | 1.6 | (0-20) | SW846 6010B | 10/06/08 | KX4N11A7 |
| | | Dilution Factor: 1 | | | | | |
| Copper | 94 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11A8 |
| | 93 | (75 - 125) | 1.0 | (0-20) | SW846 6010B | 10/06/08 | KX4N11A9 |
| | | Dilution Factor: 1 | | | | | |
| Lead | 87 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11CA |
| | 87 | (75 - 125) | 0.76 | (0-20) | SW846 6010B | 10/06/08 | KX4N11CC |
| | | Dilution Factor: 1 | | | | | |
| Nickel | 90 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11CD |
| | 89 | (75 - 125) | 1.3 | (0-20) | SW846 6010B | 10/06/08 | KX4N11CE |
| | | Dilution Factor: 1 | | | | | |
| Selenium | 93 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11CF |
| | 92 | (75 - 125) | 0.63 | (0-20) | SW846 6010B | 10/06/08 | KX4N11CG |
| | | Dilution Factor: 1 | | | | | |

(Continued on next page)

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### TOTAL Metals

**Client Lot #...:** A8J030133 **Matrix.....:** WG
**Date Sampled...:** 10/02/08 09:00 **Date Received..:** 10/03/08

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|---|
| Silver | 103 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11CH |
| | 106 | (75 - 125) | 2.8 | (0-20) | SW846 6010B | 10/06/08 | KX4N11CJ |
| | | Dilution Factor: 1 | | | | | |
| Thallium | 89 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11CK |
| | 88 | (75 - 125) | 1.0 | (0-20) | SW846 6010B | 10/06/08 | KX4N11CL |
| | | Dilution Factor: 1 | | | | | |
| Zinc | 93 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4N11CM |
| | 92 | (75 - 125) | 0.82 | (0-20) | SW846 6010B | 10/06/08 | KX4N11CN |
| | | Dilution Factor: 1 | | | | | |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

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TAL-4124 (1007)

| | | | |
|---|---|---|---|
| Client: EQM | Project Manager: A Roski | Date: 10-2-08 | Chain of Custody Number: 104090 |
| Address: 1800 Carillon Blvd | Telephone Number (Area Code)/Fax Number: 513-659-5943 | Lab Number | Page 1 of 1 |
| City: Cincinnati; State: OH; Zip Code: 45246 | Site Contact: A Roski | Lab Contact: M-Loeb | |
| Project Name and Location (State): Chemserve Detroit, MI | Carrier/Waybill Number | | |
| Contract/Purchase Order/Quote No. | | | |

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Analysis (Attach list if more space is needed): VOC | GRO | SVOC | PCB | DRO | Metals | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TMW4 | 10-2-08 | 0900 | | X | | | 6 | | 1 | 5 | | | X | X | X | X | X | X | |
| TMW3 | 10-2-08 | 1150 | | X | | | 6 | | 1 | 5 | | | X | X | X | X | X | X | |
| TMW2 | " | 1350 | | X | | | 6 | | 1 | 5 | | | X | X | X | X | X | X | |
| TMW1 | " | 1515 | | X | | | 6 | | 1 | 5 | | | X | X | X | X | X | X | |
| TRIP BLANK | | | | | | | | | | | | | X | | | | | | ALL VOCs in one cooler 4 coolers |

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

| | | | | | |
|---|---|---|---|---|---|
| 1. Relinquished By: [signature] | Date: 10-2-08 | Time: 1610 | 1. Received By: [signature] | Date: 10/2/08 | Time: 1610 |
| 2. Relinquished By: [signature] | Date: 10/2/08 | Time: 1610 | 2. Received By: [signature] | Date: 10-3-08 | Time: 0910 |
| 3. Relinquished By | Date | Time | 3. Received By | Date | Time |

Comments

**DISTRIBUTION:** WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

North Canton

**TestAmerica Cooler Receipt Form/Narrative** **Lot Number:** A8J030133
**North Canton Facility**

Client EQM Project _____ By: [signature]
Cooler Received on 10-3-08 Opened on 10-3-08 (Signature)
FedEx ☑ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # _____ Multiple Coolers ☑ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☑ No ☐ Intact? Yes ☑ No ☐ NA ☐
   If YES, Quantity 10 Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☑ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☑
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps ☑
   METHOD: IR ☑ Other ☐ _____
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☑ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☑ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☑ No ☐ Were VOAs on the COC? Yes ☑ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

*14. CHAIN OF CUSTODY*

The following discrepancies occurred:

*15. SAMPLE CONDITION*

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

*16. SAMPLE PRESERVATION*

Sample(s) 1xL TMW3 were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 031808-$HNO_3$; Sulfuric Acid Lot# 031808-$H_2SO_4$; Sodium Hydroxide Lot# 073007 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 050205-$(CH_3COO)_2ZN$/NaOH.* What time was preservative added to sample(s)? 10:50a.

| Client ID | pH | Date | Initials |
|---|---|---|---|
| 4 | <2 | 10-3-08 | NS |
| 3 | <2 | | |
| 2 | <2 | | |
| 1 | <2 | | |
| | | | |
| | | | |
| | | | |
| | | | |



SOP: NC-SC-0005, Sample Receiving
N:\QAQC\NARRATIV\TestAmerica\Cooler Receipt TestAmerica\COOLER TestAmerica Rev 68 081308.doc

## TestAmerica Cooler Receipt Form/Narrative
## North Canton Facility

| Client ID | pH | Date | Initials |
|---|---|---|---|
| | | | |

| Cooler # | Temp. °C | Method | Coolant |
|---|---|---|---|
| 241 860 | 2.8 | IR | ice |
| 644 | 1.3 | | |
| 114 | 0.8 | | |
| 295 | 2.4 | | |
| 464 | 0.5 | | |

Discrepancies Cont'd:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

# ANALYTICAL REPORT

CHEM SERV/ DETROIT, MI

Lot #: A8J030135

Stephanie Werner

Environmental Quality Mgt., I
1800 Carillon Blvd
Cincinnati, OH 45240

TESTAMERICA LABORATORIES, INC.

Mark J. Loeb
Project Manager

October 10, 2008

# CASE NARRATIVE

A8J030135

The following report contains the analytical results for eleven solid samples and one quality control sample submitted to TestAmerica North Canton by Environmental Quality Mgt., Inc. from the Chem. Serv./ Detroit, MI Site. The samples were received October 03, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Stephanie Werner on October 07, 2008, and Stephanie Werner, Aaron Roski, Erik Corbin, and Jackie Doan on October 08, 2008. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Mark J. Loeb, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 168.

# CASE NARRATIVE (continued)

## SUPPLEMENTAL QC INFORMATION

### SAMPLE RECEIVING

The coolers were received at temperatures ranging from 0.5 to 2.8° C.

See TestAmerica's Cooler Receipt Form for additional information.

### GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

Sample(s) SBA6-1-(2'-4') had elevated reporting limits due to foaming.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 8281426. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

### GC/MS SEMIVOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for TMW2-(3'-5') had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

# CASE NARRATIVE (continued)

## PURGEABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 8281084. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

## EXTRACTABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

## POLYCHLORINATED BIPHENYLS-8082

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

## METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The matrix spike/matrix spike duplicate(s) for batch(es) 8280020 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Some reporting limits are lower than our standard reporting limit (SRL) but are supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support these values(s). The continuing calibration blanks and method blanks may not support the lower RL.

# CASE NARRATIVE (continued)

## GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

# QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

**QC BATCH**

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

**LABORATORY CONTROL SAMPLE**

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

**METHOD BLANK**

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

| Volatile (GC or GC/MS) | Semivolatile (GC/MS) | Metals ICP-MS | Metals ICP Trace |
|---|---|---|---|
| Methylene Chloride, Acetone, 2-Butanone | Phthalate Esters | Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese | Copper, Iron, Zinc, Lead |

## QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

**SURROGATE COMPOUNDS**

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

***TestAmerica North Canton Certifications and Approvals:***

*California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),*
*Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), OhioVAP (#CL0024), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit*

*N:\QAQC\Customer Service\Narrative - Combined RCRA _CWA 061807.doc*

# EXECUTIVE SUMMARY - Detection Highlights

**A8J030135**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **TMW1-(4'-6') 10/01/08 08:45 001** | | | | |
| TPH (as Diesel) | 210 | 120 | mg/kg | SW846 8015B |
| Aroclor 1248 | 46 J | 310 | ug/kg | SW846 8082 |
| Aroclor 1260 | 230 J | 310 | ug/kg | SW846 8082 |
| Mercury | 0.25 | 0.094 | mg/kg | SW846 7471A |
| Antimony | 2.5 | 0.59 | mg/kg | SW846 6010B |
| Arsenic | 13.2 | 0.47 | mg/kg | SW846 6010B |
| Beryllium | 0.78 | 0.19 | mg/kg | SW846 6010B |
| Cadmium | 1.9 | 0.094 | mg/kg | SW846 6010B |
| Chromium | 31.9 | 0.47 | mg/kg | SW846 6010B |
| Copper | 77.1 | 0.94 | mg/kg | SW846 6010B |
| Lead | 424 | 0.28 | mg/kg | SW846 6010B |
| Nickel | 21.6 | 0.94 | mg/kg | SW846 6010B |
| Silver | 0.45 B | 0.47 | mg/kg | SW846 6010B |
| Zinc | 304 | 1.9 | mg/kg | SW846 6010B |
| Acenaphthene | 99 J | 780 | ug/kg | SW846 8270C |
| Acenaphthylene | 220 J | 780 | ug/kg | SW846 8270C |
| Anthracene | 320 J | 780 | ug/kg | SW846 8270C |
| Benzo(a)anthracene | 1200 | 780 | ug/kg | SW846 8270C |
| Benzo(a)pyrene | 1300 | 780 | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene | 1800 | 780 | ug/kg | SW846 8270C |
| Benzo(ghi)perylene | 850 | 780 | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene | 620 J | 780 | ug/kg | SW846 8270C |
| Carbazole | 140 J | 780 | ug/kg | SW846 8270C |
| Chrysene | 1400 | 780 | ug/kg | SW846 8270C |
| Dibenz(a,h)anthracene | 220 J | 780 | ug/kg | SW846 8270C |
| Dibenzofuran | 170 J | 780 | ug/kg | SW846 8270C |
| Fluoranthene | 2800 | 780 | ug/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | 710 J | 780 | ug/kg | SW846 8270C |
| 2-Methylnaphthalene | 510 J | 780 | ug/kg | SW846 8270C |
| Naphthalene | 300 J | 780 | ug/kg | SW846 8270C |
| Phenanthrene | 1500 | 780 | ug/kg | SW846 8270C |
| Pyrene | 2300 | 780 | ug/kg | SW846 8270C |
| Acetone | 370 J,B | 760 | ug/kg | SW846 8260B |
| Cyclohexane | 77 J | 510 | ug/kg | SW846 8260B |
| Isopropylbenzene | 8.0 J | 250 | ug/kg | SW846 8260B |
| 2-Methylnaphthalene | 18 J | 340 | ug/kg | SW846 8260B |
| Naphthalene | 29 J | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | 480 | 51 | ug/kg | SW846 8260B |
| Toluene | 41 J | 100 | ug/kg | SW846 8260B |
| 1,2,3-Trimethylbenzene | 14 J | 250 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | 36 J | 100 | ug/kg | SW846 8260B |
| o-Xylene | 32 J | 51 | ug/kg | SW846 8260B |
| Percent Solids | 84.7 | 10.0 | % | MCAWW 160.3 MOD |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

**A8J030135**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **TMW2-(3'-5') 10/01/08 09:30 002** | | | | |
| TPH (as Diesel) | 270 | 120 | mg/kg | SW846 8015B |
| Aroclor 1248 | 37 J | 310 | ug/kg | SW846 8082 |
| Mercury | 0.096 | 0.093 | mg/kg | SW846 7471A |
| Antimony | 1.2 | 0.58 | mg/kg | SW846 6010B |
| Arsenic | 8.6 | 0.47 | mg/kg | SW846 6010B |
| Beryllium | 0.11 B | 0.19 | mg/kg | SW846 6010B |
| Cadmium | 2.4 | 0.093 | mg/kg | SW846 6010B |
| Chromium | 8.7 | 0.47 | mg/kg | SW846 6010B |
| Copper | 205 | 0.93 | mg/kg | SW846 6010B |
| Lead | 118 | 0.28 | mg/kg | SW846 6010B |
| Nickel | 9.4 | 0.93 | mg/kg | SW846 6010B |
| Selenium | 0.43 B | 0.47 | mg/kg | SW846 6010B |
| Silver | 0.12 B | 0.47 | mg/kg | SW846 6010B |
| Zinc | 315 | 1.9 | mg/kg | SW846 6010B |
| Acenaphthene | 840 J | 3100 | ug/kg | SW846 8270C |
| Anthracene | 2300 J | 3100 | ug/kg | SW846 8270C |
| Benzo(a)anthracene | 4400 | 3100 | ug/kg | SW846 8270C |
| Benzo(a)pyrene | 2300 J | 3100 | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene | 4500 | 3100 | ug/kg | SW846 8270C |
| Benzo(ghi)perylene | 2400 J | 3100 | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene | 1600 J | 3100 | ug/kg | SW846 8270C |
| Carbazole | 950 J | 3100 | ug/kg | SW846 8270C |
| Chrysene | 4400 | 3100 | ug/kg | SW846 8270C |
| Dibenz(a,h)anthracene | 670 J | 3100 | ug/kg | SW846 8270C |
| Dibenzofuran | 570 J | 3100 | ug/kg | SW846 8270C |
| Fluoranthene | 13000 | 3100 | ug/kg | SW846 8270C |
| Fluorene | 780 J | 3100 | ug/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | 1900 J | 3100 | ug/kg | SW846 8270C |
| 2-Methylnaphthalene | 540 J | 3100 | ug/kg | SW846 8270C |
| Naphthalene | 540 J | 3100 | ug/kg | SW846 8270C |
| Phenanthrene | 9500 | 3100 | ug/kg | SW846 8270C |
| Pyrene | 9200 | 3100 | ug/kg | SW846 8270C |
| Acetone | 220 J,B | 700 | ug/kg | SW846 8260B |
| Percent Solids | 85.9 | 10.0 | % | MCAWW 160.3 MOD |
| **TMW3-(5'-7') 10/01/08 10:10 003** | | | | |
| TPH (as Diesel) | 150 | 130 | mg/kg | SW846 8015B |
| Mercury | 0.24 | 0.11 | mg/kg | SW846 7471A |
| Antimony | 1.1 | 0.67 | mg/kg | SW846 6010B |
| Arsenic | 10.8 | 0.54 | mg/kg | SW846 6010B |
| Beryllium | 0.92 | 0.21 | mg/kg | SW846 6010B |
| Cadmium | 0.68 | 0.11 | mg/kg | SW846 6010B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

**A8J030135**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **TMW3-(5'-7') 10/01/08 10:10 003** | | | | |
| Chromium | 14.6 | 0.54 | mg/kg | SW846 6010B |
| Copper | 167 | 1.1 | mg/kg | SW846 6010B |
| Lead | 218 | 0.32 | mg/kg | SW846 6010B |
| Nickel | 9.7 | 1.1 | mg/kg | SW846 6010B |
| Selenium | 1.3 | 0.54 | mg/kg | SW846 6010B |
| Silver | 0.67 | 0.54 | mg/kg | SW846 6010B |
| Zinc | 356 | 2.1 | mg/kg | SW846 6010B |
| Acenaphthene | 33 J | 350 | ug/kg | SW846 8270C |
| Anthracene | 64 J | 350 | ug/kg | SW846 8270C |
| Benzo(a)anthracene | 270 J | 350 | ug/kg | SW846 8270C |
| Benzo(a)pyrene | 160 J | 350 | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene | 260 J | 350 | ug/kg | SW846 8270C |
| Benzo(ghi)perylene | 170 J | 350 | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene | 250 J | 350 | ug/kg | SW846 8270C |
| Carbazole | 26 J | 350 | ug/kg | SW846 8270C |
| Chrysene | 290 J | 350 | ug/kg | SW846 8270C |
| Dibenz(a,h)anthracene | 15 J | 350 | ug/kg | SW846 8270C |
| Dibenzofuran | 47 J | 350 | ug/kg | SW846 8270C |
| Fluoranthene | 690 | 350 | ug/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | 130 J | 350 | ug/kg | SW846 8270C |
| 2-Methylnaphthalene | 250 J | 350 | ug/kg | SW846 8270C |
| Naphthalene | 170 J | 350 | ug/kg | SW846 8270C |
| Phenanthrene | 290 J | 350 | ug/kg | SW846 8270C |
| Pyrene | 460 | 350 | ug/kg | SW846 8270C |
| Acetone | 350 J,B | 920 | ug/kg | SW846 8260B |
| Percent Solids | 74.7 | 10.0 | % | MCAWW 160.3 MOD |
| **SBA8-1-(4'-5') 10/01/08 10:50 004** | | | | |
| TPH (as Diesel) | 1000 | 620 | mg/kg | SW846 8015B |
| Mercury | 0.88 | 0.099 | mg/kg | SW846 7471A |
| Arsenic | 8.3 | 0.49 | mg/kg | SW846 6010B |
| Beryllium | 0.30 | 0.20 | mg/kg | SW846 6010B |
| Chromium | 14.9 | 0.49 | mg/kg | SW846 6010B |
| Copper | 19.6 | 0.99 | mg/kg | SW846 6010B |
| Lead | 50.0 | 0.30 | mg/kg | SW846 6010B |
| Nickel | 8.5 | 0.99 | mg/kg | SW846 6010B |
| Zinc | 89.1 | 2.0 | mg/kg | SW846 6010B |
| Acenaphthene | 280000 J | 330000 | ug/kg | SW846 8270C |
| Anthracene | 440000 | 330000 | ug/kg | SW846 8270C |
| Benzo(a)anthracene | 540000 | 330000 | ug/kg | SW846 8270C |
| Benzo(a)pyrene | 430000 | 330000 | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene | 510000 | 330000 | ug/kg | SW846 8270C |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

**A8J030135**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SBA8-1-(4'-5') 10/01/08 10:50 004** | | | | |
| Benzo(ghi)perylene | 220000 J | 330000 | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene | 170000 J | 330000 | ug/kg | SW846 8270C |
| 1,1'-Biphenyl | 38000 J | 330000 | ug/kg | SW846 8270C |
| Carbazole | 200000 J | 330000 | ug/kg | SW846 8270C |
| Chrysene | 450000 | 330000 | ug/kg | SW846 8270C |
| Dibenz(a,h)anthracene | 68000 J | 330000 | ug/kg | SW846 8270C |
| Dibenzofuran | 200000 J | 330000 | ug/kg | SW846 8270C |
| Fluoranthene | 1400000 | 330000 | ug/kg | SW846 8270C |
| Fluorene | 280000 J | 330000 | ug/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | 210000 J | 330000 | ug/kg | SW846 8270C |
| 2-Methylnaphthalene | 190000 J | 330000 | ug/kg | SW846 8270C |
| Naphthalene | 840000 | 330000 | ug/kg | SW846 8270C |
| Phenanthrene | 1500000 | 330000 | ug/kg | SW846 8270C |
| Pyrene | 990000 | 330000 | ug/kg | SW846 8270C |
| Acetone | 270 J,B | 700 | ug/kg | SW846 8260B |
| Naphthalene | 180 J | 230 | ug/kg | SW846 8260B |
| Toluene | 31 J | 94 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | 14 J | 94 | ug/kg | SW846 8260B |
| o-Xylene | 11 J | 47 | ug/kg | SW846 8260B |
| Percent Solids | 80.9 | 10.0 | % | MCAWW 160.3 MOD |
| **SBA12-1-(2'-4') 10/01/08 11:20 005** | | | | |
| TPH (as Diesel) | 8.5 J | 12 | mg/kg | SW846 8015B |
| TPH (as Gasoline) | 4500 J | 6100 | ug/kg | SW846 8015B |
| Mercury | 0.034 B | 0.098 | mg/kg | SW846 7471A |
| Arsenic | 5.4 | 0.49 | mg/kg | SW846 6010B |
| Beryllium | 0.11 B | 0.20 | mg/kg | SW846 6010B |
| Chromium | 10.5 | 0.49 | mg/kg | SW846 6010B |
| Copper | 8.0 | 0.98 | mg/kg | SW846 6010B |
| Lead | 10.9 | 0.29 | mg/kg | SW846 6010B |
| Nickel | 9.9 | 0.98 | mg/kg | SW846 6010B |
| Zinc | 32.6 | 2.0 | mg/kg | SW846 6010B |
| Diethyl phthalate | 45 J | 320 | ug/kg | SW846 8270C |
| N-Nitrosodiphenylamine | 33 J | 320 | ug/kg | SW846 8270C |
| Acetone | 420 J,B | 990 | ug/kg | SW846 8260B |
| 2-Methylnaphthalene | 29 J | 440 | ug/kg | SW846 8260B |
| Naphthalene | 49 J | 330 | ug/kg | SW846 8260B |
| Toluene | 130 | 130 | ug/kg | SW846 8260B |
| 1,2,3-Trimethylbenzene | 6.7 J | 330 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | 25 J | 130 | ug/kg | SW846 8260B |
| o-Xylene | 14 J | 66 | ug/kg | SW846 8260B |
| Percent Solids | 81.5 | 10.0 | % | MCAWW 160.3 MOD |

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# EXECUTIVE SUMMARY - Detection Highlights

**A8J030135**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SBCY3-1-(5'-7') 10/01/08 11:40 006** | | | | |
| TPH (as Diesel) | 290 | 130 | mg/kg | SW846 8015B |
| Mercury | 2.2 | 0.11 | mg/kg | SW846 7471A |
| Antimony | 3.2 | 0.67 | mg/kg | SW846 6010B |
| Arsenic | 15.7 | 0.54 | mg/kg | SW846 6010B |
| Beryllium | 0.55 | 0.22 | mg/kg | SW846 6010B |
| Cadmium | 3.1 | 0.11 | mg/kg | SW846 6010B |
| Chromium | 37.2 | 0.54 | mg/kg | SW846 6010B |
| Copper | 136 | 1.1 | mg/kg | SW846 6010B |
| Lead | 558 | 0.32 | mg/kg | SW846 6010B |
| Nickel | 15.1 | 1.1 | mg/kg | SW846 6010B |
| Silver | 0.15 B | 0.54 | mg/kg | SW846 6010B |
| Zinc | 1110 | 2.2 | mg/kg | SW846 6010B |
| Acenaphthene | 1400 J | 14000 | ug/kg | SW846 8270C |
| Anthracene | 4300 J | 14000 | ug/kg | SW846 8270C |
| Benzo(a)anthracene | 17000 | 14000 | ug/kg | SW846 8270C |
| Benzo(a)pyrene | 17000 | 14000 | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene | 21000 | 14000 | ug/kg | SW846 8270C |
| Benzo(ghi)perylene | 12000 J | 14000 | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene | 6800 J | 14000 | ug/kg | SW846 8270C |
| Chrysene | 16000 | 14000 | ug/kg | SW846 8270C |
| Dibenz(a,h)anthracene | 2900 J | 14000 | ug/kg | SW846 8270C |
| Fluoranthene | 44000 | 14000 | ug/kg | SW846 8270C |
| Fluorene | 850 J | 14000 | ug/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | 9700 J | 14000 | ug/kg | SW846 8270C |
| Phenanthrene | 16000 | 14000 | ug/kg | SW846 8270C |
| Pyrene | 37000 | 14000 | ug/kg | SW846 8270C |
| Acetone | 250 J,B | 830 | ug/kg | SW846 8260B |
| Toluene | 14 J | 110 | ug/kg | SW846 8260B |
| Percent Solids | 74.2 | 10.0 | % | MCAWW 160.3 MOD |
| **SBCY2-1-(3'-5') 10/01/08 12:00 007** | | | | |
| TPH (as Diesel) | 540 | 130 | mg/kg | SW846 8015B |
| TPH (as Gasoline) | 2200 J | 6300 | ug/kg | SW846 8015B |
| Mercury | 0.40 | 0.10 | mg/kg | SW846 7471A |
| Antimony | 1.9 | 0.63 | mg/kg | SW846 6010B |
| Arsenic | 13.3 | 0.50 | mg/kg | SW846 6010B |
| Beryllium | 0.38 | 0.20 | mg/kg | SW846 6010B |
| Cadmium | 0.80 | 0.10 | mg/kg | SW846 6010B |
| Chromium | 12.7 | 0.50 | mg/kg | SW846 6010B |
| Copper | 57.9 | 1.0 | mg/kg | SW846 6010B |
| Lead | 279 | 0.30 | mg/kg | SW846 6010B |
| Nickel | 8.2 | 1.0 | mg/kg | SW846 6010B |

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# EXECUTIVE SUMMARY - Detection Highlights

**A8J030135**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SBCY2-1-(3'-5') 10/01/08 12:00 007** | | | | |
| Selenium | 0.45 B | 0.50 | mg/kg | SW846 6010B |
| Zinc | 290 | 2.0 | mg/kg | SW846 6010B |
| Acenaphthene | 230 J | 1700 | ug/kg | SW846 8270C |
| Acenaphthylene | 100 J | 1700 | ug/kg | SW846 8270C |
| Anthracene | 670 J | 1700 | ug/kg | SW846 8270C |
| Benzo(a)anthracene | 2300 | 1700 | ug/kg | SW846 8270C |
| Benzo(a)pyrene | 2200 | 1700 | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene | 3200 | 1700 | ug/kg | SW846 8270C |
| Benzo(ghi)perylene | 1600 J | 1700 | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene | 950 J | 1700 | ug/kg | SW846 8270C |
| Carbazole | 200 J | 1700 | ug/kg | SW846 8270C |
| Chrysene | 2400 | 1700 | ug/kg | SW846 8270C |
| Dibenz(a,h)anthracene | 410 J | 1700 | ug/kg | SW846 8270C |
| Fluoranthene | 5500 | 1700 | ug/kg | SW846 8270C |
| Fluorene | 180 J | 1700 | ug/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | 1300 J | 1700 | ug/kg | SW846 8270C |
| 2-Methylnaphthalene | 180 J | 1700 | ug/kg | SW846 8270C |
| Naphthalene | 160 J | 1700 | ug/kg | SW846 8270C |
| Phenanthrene | 1900 | 1700 | ug/kg | SW846 8270C |
| Pyrene | 4200 | 1700 | ug/kg | SW846 8270C |
| Acetone | 360 J,B | 1100 | ug/kg | SW846 8260B |
| Naphthalene | 59 J | 370 | ug/kg | SW846 8260B |
| Toluene | 25 J | 150 | ug/kg | SW846 8260B |
| Percent Solids | 79.5 | 10.0 | % | MCAWW 160.3 MOD |
| **SBCY4-1-(2'-4') 10/01/08 13:15 008** | | | | |
| TPH (as Diesel) | 3.5 J | 12 | mg/kg | SW846 8015B |
| Mercury | 0.025 B | 0.098 | mg/kg | SW846 7471A |
| Arsenic | 5.4 | 0.49 | mg/kg | SW846 6010B |
| Beryllium | 0.095 B | 0.20 | mg/kg | SW846 6010B |
| Chromium | 13.4 | 0.49 | mg/kg | SW846 6010B |
| Copper | 15.1 | 0.98 | mg/kg | SW846 6010B |
| Lead | 5.8 | 0.30 | mg/kg | SW846 6010B |
| Nickel | 10.7 | 0.98 | mg/kg | SW846 6010B |
| Zinc | 23.8 | 2.0 | mg/kg | SW846 6010B |
| Acetone | 210 J,B | 730 | ug/kg | SW846 8260B |
| Percent Solids | 81.3 | 10.0 | % | MCAWW 160.3 MOD |

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# EXECUTIVE SUMMARY - Detection Highlights

**A8J030135**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SBCY1-1-(4'-6') 10/01/08 13:40 009** | | | | |
| TPH (as Diesel) | 44 | 12 | mg/kg | SW846 8015B |
| Antimony | 0.49 B | 0.62 | mg/kg | SW846 6010B |
| Arsenic | 1.4 | 0.50 | mg/kg | SW846 6010B |
| Cadmium | 0.058 B | 0.099 | mg/kg | SW846 6010B |
| Chromium | 3.3 | 0.50 | mg/kg | SW846 6010B |
| Copper | 2.5 | 0.99 | mg/kg | SW846 6010B |
| Lead | 88.5 | 0.30 | mg/kg | SW846 6010B |
| Nickel | 2.7 | 0.99 | mg/kg | SW846 6010B |
| Zinc | 20.2 | 2.0 | mg/kg | SW846 6010B |
| Acetone | 170 J,B | 710 | ug/kg | SW846 8260B |
| Percent Solids | 80.5 | 10.0 | % | MCAWW 160.3 MOD |
| **SBA6-1-(2'-4') 10/01/08 14:00 010** | | | | |
| TPH (as Diesel) | 470 | 120 | mg/kg | SW846 8015B |
| TPH (as Gasoline) | 4600 J | 6100 | ug/kg | SW846 8015B |
| Mercury | 0.97 | 0.098 | mg/kg | SW846 7471A |
| Antimony | 2.1 | 0.61 | mg/kg | SW846 6010B |
| Arsenic | 24.1 | 0.49 | mg/kg | SW846 6010B |
| Beryllium | 0.86 | 0.20 | mg/kg | SW846 6010B |
| Cadmium | 0.98 | 0.098 | mg/kg | SW846 6010B |
| Chromium | 11.3 | 0.49 | mg/kg | SW846 6010B |
| Copper | 143 | 0.98 | mg/kg | SW846 6010B |
| Lead | 771 | 0.29 | mg/kg | SW846 6010B |
| Nickel | 13.7 | 0.98 | mg/kg | SW846 6010B |
| Selenium | 0.94 | 0.49 | mg/kg | SW846 6010B |
| Zinc | 701 | 2.0 | mg/kg | SW846 6010B |
| Acenaphthene | 730 J | 3200 | ug/kg | SW846 8270C |
| Acenaphthylene | 280 J | 3200 | ug/kg | SW846 8270C |
| Anthracene | 1900 J | 3200 | ug/kg | SW846 8270C |
| Benzo(a)anthracene | 5700 | 3200 | ug/kg | SW846 8270C |
| Benzo(a)pyrene | 5100 | 3200 | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene | 6800 | 3200 | ug/kg | SW846 8270C |
| Benzo(ghi)perylene | 3700 | 3200 | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene | 2100 J | 3200 | ug/kg | SW846 8270C |
| Carbazole | 780 J | 3200 | ug/kg | SW846 8270C |
| Chrysene | 5700 | 3200 | ug/kg | SW846 8270C |
| Dibenz(a,h)anthracene | 950 J | 3200 | ug/kg | SW846 8270C |
| Dibenzofuran | 430 J | 3200 | ug/kg | SW846 8270C |
| Fluoranthene | 14000 | 3200 | ug/kg | SW846 8270C |
| Fluorene | 700 J | 3200 | ug/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | 3000 J | 3200 | ug/kg | SW846 8270C |
| 2-Methylnaphthalene | 540 J | 3200 | ug/kg | SW846 8270C |

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# EXECUTIVE SUMMARY - Detection Highlights

**A8J030135**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SBA6-1-(2'-4') 10/01/08 14:00 010** | | | | |
| Naphthalene | 450 J | 3200 | ug/kg | SW846 8270C |
| Phenanthrene | 8000 | 3200 | ug/kg | SW846 8270C |
| Pyrene | 11000 | 3200 | ug/kg | SW846 8270C |
| Acetone | 440 J,B | 2000 | ug/kg | SW846 8260B |
| Percent Solids | 81.7 | 10.0 | % | MCAWW 160.3 MOD |
| **SBA30-1-(2'-4') 10/01/08 14:30 011** | | | | |
| TPH (as Diesel) | 1000 | 600 | mg/kg | SW846 8015B |
| Arsenic | 2.6 | 0.48 | mg/kg | SW846 6010B |
| Cadmium | 0.16 | 0.096 | mg/kg | SW846 6010B |
| Chromium | 6.5 | 0.48 | mg/kg | SW846 6010B |
| Copper | 6.3 | 0.96 | mg/kg | SW846 6010B |
| Lead | 106 | 0.29 | mg/kg | SW846 6010B |
| Nickel | 6.8 | 0.96 | mg/kg | SW846 6010B |
| Zinc | 51.4 | 1.9 | mg/kg | SW846 6010B |
| 2-Methylnaphthalene | 9.0 J | 320 | ug/kg | SW846 8270C |
| Acetone | 170 J,B | 660 | ug/kg | SW846 8260B |
| Percent Solids | 83.2 | 10.0 | % | MCAWW 160.3 MOD |
| **TRIP BLANK 10/01/08 012** | | | | |
| Acetone | 130 J,B | 600 | ug/kg | SW846 8260B |

# ANALYTICAL METHODS SUMMARY

**A8J030135**

| PARAMETER | ANALYTICAL METHOD |
|---|---|
| Extractable Petroleum Hydrocarbons | SW846 8015B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A |
| PCBs by SW-846 8082 | SW846 8082 |
| Semivolatile Organic Compounds by GC/MS | SW846 8270C |
| Total Residue as Percent Solids | MCAWW 160.3 MOD |
| Trace Inductively Coupled Plasma (ICP) Metals | SW846 6010B |
| Volatile Organics by GC/MS | SW846 8260B |
| Volatile Petroleum Hydrocarbons | SW846 8015B |

**References:**


MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

**A8J030135**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| KX4PE | 001 | TMW1-(4'-6') | 10/01/08 | 08:45 |
| KX4PT | 002 | TMW2-(3'-5') | 10/01/08 | 09:30 |
| KX4PV | 003 | TMW3-(5'-7') | 10/01/08 | 10:10 |
| KX4PW | 004 | SBA8-1-(4'-5') | 10/01/08 | 10:50 |
| KX4P3 | 005 | SBA12-1-(2'-4') | 10/01/08 | 11:20 |
| KX4P5 | 006 | SBCY3-1-(5'-7') | 10/01/08 | 11:40 |
| KX4P7 | 007 | SBCY2-1-(3'-5') | 10/01/08 | 12:00 |
| KX4P8 | 008 | SBCY4-1-(2'-4') | 10/01/08 | 13:15 |
| KX4P9 | 009 | SBCY1-1-(4'-6') | 10/01/08 | 13:40 |
| KX4QA | 010 | SBA6-1-(2'-4') | 10/01/08 | 14:00 |
| KX4QF | 011 | SBA30-1-(2'-4') | 10/01/08 | 14:30 |
| KX4QV | 012 | TRIP BLANK | 10/01/08 | |

**NOTE(S):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE1AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 08:45 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 1.08
**% Moisture.....:** 15 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **370 J,B** | **760** | **ug/kg** |
| Acrylonitrile | ND | 2500 | ug/kg |
| Benzene | ND | 51 | ug/kg |
| Bromobenzene | ND | 100 | ug/kg |
| Bromochloromethane | ND | 100 | ug/kg |
| Bromodichloromethane | ND | 100 | ug/kg |
| Bromoform | ND | 100 | ug/kg |
| Bromomethane | ND | 200 | ug/kg |
| 2-Butanone | ND | 760 | ug/kg |
| tert-Butyl alcohol | ND | 1300 | ug/kg |
| n-Butylbenzene | ND | 51 | ug/kg |
| sec-Butylbenzene | ND | 51 | ug/kg |
| tert-Butylbenzene | ND | 51 | ug/kg |
| Carbon disulfide | ND | 250 | ug/kg |
| Carbon tetrachloride | ND | 51 | ug/kg |
| Chlorobenzene | ND | 51 | ug/kg |
| Dibromochloromethane | ND | 51 | ug/kg |
| Chloroethane | ND | 250 | ug/kg |
| Chloroform | ND | 51 | ug/kg |
| Chloromethane | ND | 250 | ug/kg |
| **Cyclohexane** | **77 J** | **510** | **ug/kg** |
| 1,2-Dibromo-3-chloro-propane | ND | 250 | ug/kg |
| 1,2-Dibromoethane | ND | 250 | ug/kg |
| Dibromomethane | ND | 250 | ug/kg |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg |
| 1,3-Dichlorobenzene | ND | 100 | ug/kg |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 64 | ug/kg |
| Dichlorodifluoromethane | ND | 100 | ug/kg |
| 1,1-Dichloroethane | ND | 51 | ug/kg |
| 1,2-Dichloroethane | ND | 51 | ug/kg |
| cis-1,2-Dichloroethene | ND | 51 | ug/kg |
| trans-1,2-Dichloroethene | ND | 51 | ug/kg |
| 1,1-Dichloroethene | ND | 51 | ug/kg |
| 1,2-Dichloropropane | ND | 51 | ug/kg |
| cis-1,3-Dichloropropene | ND | 51 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE1AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 51 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 250 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 250 | ug/kg |
| Ethylbenzene | ND | 51 | ug/kg |
| Ethyl ether | ND | 200 | ug/kg |
| 2-Hexanone | ND | 2500 | ug/kg |
| Iodomethane | ND | 100 | ug/kg |
| **Isopropylbenzene** | **8.0 J** | **250** | **ug/kg** |
| Isopropyl ether | ND | 250 | ug/kg |
| p-Isopropyltoluene | ND | 100 | ug/kg |
| Methylene chloride | ND | 250 | ug/kg |
| **2-Methylnaphthalene** | **18 J** | **340** | **ug/kg** |
| 4-Methyl-2-pentanone | ND | 2500 | ug/kg |
| Methyl tert-butyl ether | ND | 250 | ug/kg |
| **Naphthalene** | **29 J** | **250** | **ug/kg** |
| n-Propylbenzene | ND | 100 | ug/kg |
| Styrene | ND | 51 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 100 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 51 | ug/kg |
| **Tetrachloroethene** | **480** | **51** | **ug/kg** |
| Tetrahydrofuran | ND | 1000 | ug/kg |
| **Toluene** | **41 J** | **100** | **ug/kg** |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 250 | ug/kg |
| 1,1,1-Trichloroethane | ND | 51 | ug/kg |
| 1,1,2-Trichloroethane | ND | 51 | ug/kg |
| Trichloroethene | ND | 51 | ug/kg |
| Trichlorofluoromethane | ND | 100 | ug/kg |
| 1,2,3-Trichloropropane | ND | 100 | ug/kg |
| **1,2,3-Trimethylbenzene** | **14 J** | **250** | **ug/kg** |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg |
| Vinyl chloride | ND | 41 | ug/kg |
| **m-Xylene & p-Xylene** | **36 J** | **100** | **ug/kg** |
| **o-Xylene** | **32 J** | **51** | **ug/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 83 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 101 | (61 - 130) |
| Toluene-d8 | 83 | (60 - 143) |
| 4-Bromofluorobenzene | 80 | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE1AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE1AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 08:45 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 2.5
**% Moisture.....:** 15 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acenaphthene** | **99 J** | **780** | **ug/kg** |
| **Acenaphthylene** | **220 J** | **780** | **ug/kg** |
| Acetophenone | ND | 780 | ug/kg |
| **Anthracene** | **320 J** | **780** | **ug/kg** |
| Atrazine | ND | 780 | ug/kg |
| **Benzo(a)anthracene** | **1200** | **780** | **ug/kg** |
| **Benzo(a)pyrene** | **1300** | **780** | **ug/kg** |
| **Benzo(b)fluoranthene** | **1800** | **780** | **ug/kg** |
| **Benzo(ghi)perylene** | **850** | **780** | **ug/kg** |
| **Benzo(k)fluoranthene** | **620 J** | **780** | **ug/kg** |
| Benzaldehyde | ND | 780 | ug/kg |
| 1,1'-Biphenyl | ND | 780 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 780 | ug/kg |
| bis(2-Chloroethyl)- ether | ND | 780 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 780 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 780 | ug/kg |
| Butyl benzyl phthalate | ND | 780 | ug/kg |
| Caprolactam | ND | 780 | ug/kg |
| **Carbazole** | **140 J** | **780** | **ug/kg** |
| 4-Chloroaniline | ND | 4000 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 780 | ug/kg |
| 2-Chloronaphthalene | ND | 780 | ug/kg |
| 2-Chlorophenol | ND | 780 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 780 | ug/kg |
| **Chrysene** | **1400** | **780** | **ug/kg** |
| **Dibenz(a,h)anthracene** | **220 J** | **780** | **ug/kg** |
| **Dibenzofuran** | **170 J** | **780** | **ug/kg** |
| 3,3'-Dichlorobenzidine | ND | 4700 | ug/kg |
| 2,4-Dichlorophenol | ND | 780 | ug/kg |
| Diethyl phthalate | ND | 780 | ug/kg |
| 2,4-Dimethylphenol | ND | 780 | ug/kg |
| Dimethyl phthalate | ND | 780 | ug/kg |
| Di-n-butyl phthalate | ND | 780 | ug/kg |

(Continued on next page)

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE1AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 4000 | ug/kg |
| 2,4-Dinitrophenol | ND | 4000 | ug/kg |
| 2,4-Dinitrotoluene | ND | 780 | ug/kg |
| 2,6-Dinitrotoluene | ND | 780 | ug/kg |
| Di-n-octyl phthalate | ND | 780 | ug/kg |
| **Fluoranthene** | **2800** | **780** | **ug/kg** |
| Fluorene | ND | 780 | ug/kg |
| Hexachlorobenzene | ND | 780 | ug/kg |
| Hexachlorobutadiene | ND | 780 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 780 | ug/kg |
| Hexachloroethane | ND | 780 | ug/kg |
| **Indeno(1,2,3-cd)pyrene** | **710 J** | **780** | **ug/kg** |
| Isophorone | ND | 780 | ug/kg |
| **2-Methylnaphthalene** | **510 J** | **780** | **ug/kg** |
| 2-Methylphenol | ND | 780 | ug/kg |
| 4-Methylphenol | ND | 780 | ug/kg |
| **Naphthalene** | **300 J** | **780** | **ug/kg** |
| 2-Nitroaniline | ND | 4000 | ug/kg |
| 3-Nitroaniline | ND | 4000 | ug/kg |
| 4-Nitroaniline | ND | 4000 | ug/kg |
| Nitrobenzene | ND | 780 | ug/kg |
| 2-Nitrophenol | ND | 780 | ug/kg |
| 4-Nitrophenol | ND | 4000 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 780 | ug/kg |
| N-Nitrosodiphenylamine | ND | 780 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 780 | ug/kg |
| Pentachlorophenol | ND | 1900 | ug/kg |
| **Phenanthrene** | **1500** | **780** | **ug/kg** |
| Phenol | ND | 780 | ug/kg |
| **Pyrene** | **2300** | **780** | **ug/kg** |
| 2,4,5-Trichloro-phenol | ND | 780 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 780 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE1AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 56 DIL | (24 - 112) |
| 2-Fluorobiphenyl | 57 DIL | (34 - 110) |
| Terphenyl-d14 | 79 DIL | (41 - 119) |
| Phenol-d5 | 62 DIL | (28 - 110) |
| 2-Fluorophenol | 52 DIL | (26 - 110) |
| 2,4,6-Tribromophenol | 40 DIL | (10 - 118) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE1AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 08:45 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 15 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 5900 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 41 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE1AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 08:45 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 10
**% Moisture.....:** 15 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **210** | **120** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 33 DIL | (10 - 110) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE1AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 08:45 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 15 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 310 | ug/kg |
| Aroclor 1221 | ND | 310 | ug/kg |
| Aroclor 1232 | ND | 310 | ug/kg |
| Aroclor 1242 | ND | 310 | ug/kg |
| **Aroclor 1248** | **46 J** | **310** | **ug/kg** |
| Aroclor 1254 | ND | 310 | ug/kg |
| **Aroclor 1260** | **230 J** | **310** | **ug/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 74 | (10 - 196) |
| Decachlorobiphenyl | 93 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-001 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 08:45 **Date Received..:** 10/03/08
**% Moisture.....:** 15

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| **Antimony** | **2.5** | **0.59** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AD** |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **13.2** | **0.47** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **0.78** | **0.19** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AF** |
| | | Dilution Factor: 1 | | | | |
| **Cadmium** | **1.9** | **0.094** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AG** |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **31.9** | **0.47** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **77.1** | **0.94** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **424** | **0.28** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **21.6** | **0.94** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AL** |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 0.47 | mg/kg | SW846 6010B | 10/06/08 | KX4PE1AM |
| | | Dilution Factor: 1 | | | | |
| **Silver** | **0.45 B** | **0.47** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AN** |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 0.94 | mg/kg | SW846 6010B | 10/06/08 | KX4PE1AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **304** | **1.9** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PE1AQ** |
| | | Dilution Factor: 1 | | | | |
| **Mercury** | **0.25** | **0.094** | **mg/kg** | **SW846 7471A** | **10/06/08** | **KX4PE1AR** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW1-(4'-6')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-001 **Work Order #...:** KX4PE **Matrix.....:** SO
**Date Sampled...:** 10/01/08 08:45 **Date Received..:** 10/03/08
**% Moisture.....:** 15

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **84.7** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT1AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 09:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 1
**% Moisture.....:** 14 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **220 J,B** | **700** | **ug/kg** |
| Acrylonitrile | ND | 2300 | ug/kg |
| Benzene | ND | 47 | ug/kg |
| Bromobenzene | ND | 93 | ug/kg |
| Bromochloromethane | ND | 93 | ug/kg |
| Bromodichloromethane | ND | 93 | ug/kg |
| Bromoform | ND | 93 | ug/kg |
| Bromomethane | ND | 190 | ug/kg |
| 2-Butanone | ND | 700 | ug/kg |
| tert-Butyl alcohol | ND | 1200 | ug/kg |
| n-Butylbenzene | ND | 47 | ug/kg |
| sec-Butylbenzene | ND | 47 | ug/kg |
| tert-Butylbenzene | ND | 47 | ug/kg |
| Carbon disulfide | ND | 230 | ug/kg |
| Carbon tetrachloride | ND | 47 | ug/kg |
| Chlorobenzene | ND | 47 | ug/kg |
| Dibromochloromethane | ND | 47 | ug/kg |
| Chloroethane | ND | 230 | ug/kg |
| Chloroform | ND | 47 | ug/kg |
| Chloromethane | ND | 230 | ug/kg |
| Cyclohexane | ND | 470 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 230 | ug/kg |
| 1,2-Dibromoethane | ND | 230 | ug/kg |
| Dibromomethane | ND | 230 | ug/kg |
| 1,2-Dichlorobenzene | ND | 93 | ug/kg |
| 1,3-Dichlorobenzene | ND | 93 | ug/kg |
| 1,4-Dichlorobenzene | ND | 93 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 58 | ug/kg |
| Dichlorodifluoromethane | ND | 93 | ug/kg |
| 1,1-Dichloroethane | ND | 47 | ug/kg |
| 1,2-Dichloroethane | ND | 47 | ug/kg |
| cis-1,2-Dichloroethene | ND | 47 | ug/kg |
| trans-1,2-Dichloroethene | ND | 47 | ug/kg |
| 1,1-Dichloroethene | ND | 47 | ug/kg |
| 1,2-Dichloropropane | ND | 47 | ug/kg |
| cis-1,3-Dichloropropene | ND | 47 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT1AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 47 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 230 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 230 | ug/kg |
| Ethylbenzene | ND | 47 | ug/kg |
| Ethyl ether | ND | 190 | ug/kg |
| 2-Hexanone | ND | 2300 | ug/kg |
| Iodomethane | ND | 93 | ug/kg |
| Isopropylbenzene | ND | 230 | ug/kg |
| Isopropyl ether | ND | 230 | ug/kg |
| p-Isopropyltoluene | ND | 93 | ug/kg |
| Methylene chloride | ND | 230 | ug/kg |
| 2-Methylnaphthalene | ND | 310 | ug/kg |
| 4-Methyl-2-pentanone | ND | 2300 | ug/kg |
| Methyl tert-butyl ether | ND | 230 | ug/kg |
| Naphthalene | ND | 230 | ug/kg |
| n-Propylbenzene | ND | 93 | ug/kg |
| Styrene | ND | 47 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 93 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 47 | ug/kg |
| Tetrachloroethene | ND | 47 | ug/kg |
| Tetrahydrofuran | ND | 930 | ug/kg |
| Toluene | ND | 93 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 230 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 230 | ug/kg |
| 1,1,1-Trichloroethane | ND | 47 | ug/kg |
| 1,1,2-Trichloroethane | ND | 47 | ug/kg |
| Trichloroethene | ND | 47 | ug/kg |
| Trichlorofluoromethane | ND | 93 | ug/kg |
| 1,2,3-Trichloropropane | ND | 93 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 230 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 93 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 93 | ug/kg |
| Vinyl chloride | ND | 37 | ug/kg |
| m-Xylene & p-Xylene | ND | 93 | ug/kg |
| o-Xylene | ND | 47 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 88 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 107 | (61 - 130) |
| Toluene-d8 | 88 | (60 - 143) |
| 4-Bromofluorobenzene | 84 | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT1AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT1AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 09:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 10
**% Moisture.....:** 14 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acenaphthene** | **840 J** | **3100** | **ug/kg** |
| Acenaphthylene | ND | 3100 | ug/kg |
| Acetophenone | ND | 3100 | ug/kg |
| **Anthracene** | **2300 J** | **3100** | **ug/kg** |
| Atrazine | ND | 3100 | ug/kg |
| **Benzo(a)anthracene** | **4400** | **3100** | **ug/kg** |
| **Benzo(a)pyrene** | **2300 J** | **3100** | **ug/kg** |
| **Benzo(b)fluoranthene** | **4500** | **3100** | **ug/kg** |
| **Benzo(ghi)perylene** | **2400 J** | **3100** | **ug/kg** |
| **Benzo(k)fluoranthene** | **1600 J** | **3100** | **ug/kg** |
| Benzaldehyde | ND | 3100 | ug/kg |
| 1,1'-Biphenyl | ND | 3100 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 3100 | ug/kg |
| bis(2-Chloroethyl)- ether | ND | 3100 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 3100 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 3100 | ug/kg |
| Butyl benzyl phthalate | ND | 3100 | ug/kg |
| Caprolactam | ND | 3100 | ug/kg |
| **Carbazole** | **950 J** | **3100** | **ug/kg** |
| 4-Chloroaniline | ND | 16000 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 3100 | ug/kg |
| 2-Chloronaphthalene | ND | 3100 | ug/kg |
| 2-Chlorophenol | ND | 3100 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 3100 | ug/kg |
| **Chrysene** | **4400** | **3100** | **ug/kg** |
| **Dibenz(a,h)anthracene** | **670 J** | **3100** | **ug/kg** |
| **Dibenzofuran** | **570 J** | **3100** | **ug/kg** |
| 3,3'-Dichlorobenzidine | ND | 19000 | ug/kg |
| 2,4-Dichlorophenol | ND | 3100 | ug/kg |
| Diethyl phthalate | ND | 3100 | ug/kg |
| 2,4-Dimethylphenol | ND | 3100 | ug/kg |
| Dimethyl phthalate | ND | 3100 | ug/kg |
| Di-n-butyl phthalate | ND | 3100 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT1AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 16000 | ug/kg |
| 2,4-Dinitrophenol | ND | 16000 | ug/kg |
| 2,4-Dinitrotoluene | ND | 3100 | ug/kg |
| 2,6-Dinitrotoluene | ND | 3100 | ug/kg |
| Di-n-octyl phthalate | ND | 3100 | ug/kg |
| **Fluoranthene** | **13000** | **3100** | **ug/kg** |
| **Fluorene** | **780 J** | **3100** | **ug/kg** |
| Hexachlorobenzene | ND | 3100 | ug/kg |
| Hexachlorobutadiene | ND | 3100 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 3100 | ug/kg |
| Hexachloroethane | ND | 3100 | ug/kg |
| **Indeno(1,2,3-cd)pyrene** | **1900 J** | **3100** | **ug/kg** |
| Isophorone | ND | 3100 | ug/kg |
| **2-Methylnaphthalene** | **540 J** | **3100** | **ug/kg** |
| 2-Methylphenol | ND | 3100 | ug/kg |
| 4-Methylphenol | ND | 3100 | ug/kg |
| **Naphthalene** | **540 J** | **3100** | **ug/kg** |
| 2-Nitroaniline | ND | 16000 | ug/kg |
| 3-Nitroaniline | ND | 16000 | ug/kg |
| 4-Nitroaniline | ND | 16000 | ug/kg |
| Nitrobenzene | ND | 3100 | ug/kg |
| 2-Nitrophenol | ND | 3100 | ug/kg |
| 4-Nitrophenol | ND | 16000 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 3100 | ug/kg |
| N-Nitrosodiphenylamine | ND | 3100 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 3100 | ug/kg |
| Pentachlorophenol | ND | 7500 | ug/kg |
| **Phenanthrene** | **9500** | **3100** | **ug/kg** |
| Phenol | ND | 3100 | ug/kg |
| **Pyrene** | **9200** | **3100** | **ug/kg** |
| 2,4,5-Trichloro-phenol | ND | 3100 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 3100 | ug/kg |

(Continued on next page)

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT1AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 48 DIL | (24 - 112) |
| 2-Fluorobiphenyl | 46 DIL | (34 - 110) |
| Terphenyl-d14 | 57 DIL | (41 - 119) |
| Phenol-d5 | 44 DIL | (28 - 110) |
| 2-Fluorophenol | 39 DIL | (26 - 110) |
| 2,4,6-Tribromophenol | 20 DIL | (10 - 118) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT1AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 09:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 14 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 5800 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 47 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT1AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 09:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 10
**% Moisture.....:** 14 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **270** | **120** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 26 DIL | (10 - 110) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT1AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 09:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 14 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 310 | ug/kg |
| Aroclor 1221 | ND | 310 | ug/kg |
| Aroclor 1232 | ND | 310 | ug/kg |
| Aroclor 1242 | ND | 310 | ug/kg |
| **Aroclor 1248** | **37 J** | **310** | **ug/kg** |
| Aroclor 1254 | ND | 310 | ug/kg |
| Aroclor 1260 | ND | 310 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 71 | (10 - 196) |
| Decachlorobiphenyl | 93 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-002 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 09:30 **Date Received..:** 10/03/08
**% Moisture.....:** 14

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| **Antimony** | **1.2** | **0.58** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AD** |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **8.6** | **0.47** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **0.11 B** | **0.19** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AF** |
| | | Dilution Factor: 1 | | | | |
| **Cadmium** | **2.4** | **0.093** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AG** |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **8.7** | **0.47** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **205** | **0.93** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **118** | **0.28** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **9.4** | **0.93** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AL** |
| | | Dilution Factor: 1 | | | | |
| **Selenium** | **0.43 B** | **0.47** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AM** |
| | | Dilution Factor: 1 | | | | |
| **Silver** | **0.12 B** | **0.47** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AN** |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 0.93 | mg/kg | SW846 6010B | 10/06/08 | KX4PT1AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **315** | **1.9** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PT1AQ** |
| | | Dilution Factor: 1 | | | | |
| **Mercury** | **0.096** | **0.093** | **mg/kg** | **SW846 7471A** | **10/06/08** | **KX4PT1AR** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW2-(3'-5')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-002 **Work Order #...:** KX4PT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 09:30 **Date Received..:** 10/03/08
**% Moisture.....:** 14

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **85.9** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV1AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:10 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 1.15
**% Moisture.....:** 25 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **350 J,B** | **920** | **ug/kg** |
| Acrylonitrile | ND | 3100 | ug/kg |
| Benzene | ND | 62 | ug/kg |
| Bromobenzene | ND | 120 | ug/kg |
| Bromochloromethane | ND | 120 | ug/kg |
| Bromodichloromethane | ND | 120 | ug/kg |
| Bromoform | ND | 120 | ug/kg |
| Bromomethane | ND | 250 | ug/kg |
| 2-Butanone | ND | 920 | ug/kg |
| tert-Butyl alcohol | ND | 1500 | ug/kg |
| n-Butylbenzene | ND | 62 | ug/kg |
| sec-Butylbenzene | ND | 62 | ug/kg |
| tert-Butylbenzene | ND | 62 | ug/kg |
| Carbon disulfide | ND | 310 | ug/kg |
| Carbon tetrachloride | ND | 62 | ug/kg |
| Chlorobenzene | ND | 62 | ug/kg |
| Dibromochloromethane | ND | 62 | ug/kg |
| Chloroethane | ND | 310 | ug/kg |
| Chloroform | ND | 62 | ug/kg |
| Chloromethane | ND | 310 | ug/kg |
| Cyclohexane | ND | 620 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 310 | ug/kg |
| 1,2-Dibromoethane | ND | 310 | ug/kg |
| Dibromomethane | ND | 310 | ug/kg |
| 1,2-Dichlorobenzene | ND | 120 | ug/kg |
| 1,3-Dichlorobenzene | ND | 120 | ug/kg |
| 1,4-Dichlorobenzene | ND | 120 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 77 | ug/kg |
| Dichlorodifluoromethane | ND | 120 | ug/kg |
| 1,1-Dichloroethane | ND | 62 | ug/kg |
| 1,2-Dichloroethane | ND | 62 | ug/kg |
| cis-1,2-Dichloroethene | ND | 62 | ug/kg |
| trans-1,2-Dichloroethene | ND | 62 | ug/kg |
| 1,1-Dichloroethene | ND | 62 | ug/kg |
| 1,2-Dichloropropane | ND | 62 | ug/kg |
| cis-1,3-Dichloropropene | ND | 62 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV1AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 62 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 310 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 310 | ug/kg |
| Ethylbenzene | ND | 62 | ug/kg |
| Ethyl ether | ND | 250 | ug/kg |
| 2-Hexanone | ND | 3100 | ug/kg |
| Iodomethane | ND | 120 | ug/kg |
| Isopropylbenzene | ND | 310 | ug/kg |
| Isopropyl ether | ND | 310 | ug/kg |
| p-Isopropyltoluene | ND | 120 | ug/kg |
| Methylene chloride | ND | 310 | ug/kg |
| 2-Methylnaphthalene | ND | 410 | ug/kg |
| 4-Methyl-2-pentanone | ND | 3100 | ug/kg |
| Methyl tert-butyl ether | ND | 310 | ug/kg |
| Naphthalene | ND | 310 | ug/kg |
| n-Propylbenzene | ND | 120 | ug/kg |
| Styrene | ND | 62 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 120 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 62 | ug/kg |
| Tetrachloroethene | ND | 62 | ug/kg |
| Tetrahydrofuran | ND | 1200 | ug/kg |
| Toluene | ND | 120 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 310 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 310 | ug/kg |
| 1,1,1-Trichloroethane | ND | 62 | ug/kg |
| 1,1,2-Trichloroethane | ND | 62 | ug/kg |
| Trichloroethene | ND | 62 | ug/kg |
| Trichlorofluoromethane | ND | 120 | ug/kg |
| 1,2,3-Trichloropropane | ND | 120 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 310 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 120 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 120 | ug/kg |
| Vinyl chloride | ND | 49 | ug/kg |
| m-Xylene & p-Xylene | ND | 120 | ug/kg |
| o-Xylene | ND | 62 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 85 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 104 | (61 - 130) |
| Toluene-d8 | 85 | (60 - 143) |
| 4-Bromofluorobenzene | 80 | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV1AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV1AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:10 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 1
**% Moisture.....:** 25 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acenaphthene** | **33 J** | **350** | **ug/kg** |
| Acenaphthylene | ND | 350 | ug/kg |
| Acetophenone | ND | 350 | ug/kg |
| **Anthracene** | **64 J** | **350** | **ug/kg** |
| Atrazine | ND | 350 | ug/kg |
| **Benzo(a)anthracene** | **270 J** | **350** | **ug/kg** |
| **Benzo(a)pyrene** | **160 J** | **350** | **ug/kg** |
| **Benzo(b)fluoranthene** | **260 J** | **350** | **ug/kg** |
| **Benzo(ghi)perylene** | **170 J** | **350** | **ug/kg** |
| **Benzo(k)fluoranthene** | **250 J** | **350** | **ug/kg** |
| Benzaldehyde | ND | 350 | ug/kg |
| 1,1'-Biphenyl | ND | 350 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 350 | ug/kg |
| bis(2-Chloroethyl)- ether | ND | 350 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 350 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 350 | ug/kg |
| Butyl benzyl phthalate | ND | 350 | ug/kg |
| Caprolactam | ND | 350 | ug/kg |
| **Carbazole** | **26 J** | **350** | **ug/kg** |
| 4-Chloroaniline | ND | 1800 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 350 | ug/kg |
| 2-Chloronaphthalene | ND | 350 | ug/kg |
| 2-Chlorophenol | ND | 350 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 350 | ug/kg |
| **Chrysene** | **290 J** | **350** | **ug/kg** |
| **Dibenz(a,h)anthracene** | **15 J** | **350** | **ug/kg** |
| **Dibenzofuran** | **47 J** | **350** | **ug/kg** |
| 3,3'-Dichlorobenzidine | ND | 2100 | ug/kg |
| 2,4-Dichlorophenol | ND | 350 | ug/kg |
| Diethyl phthalate | ND | 350 | ug/kg |
| 2,4-Dimethylphenol | ND | 350 | ug/kg |
| Dimethyl phthalate | ND | 350 | ug/kg |
| Di-n-butyl phthalate | ND | 350 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV1AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 1800 | ug/kg |
| 2,4-Dinitrophenol | ND | 1800 | ug/kg |
| 2,4-Dinitrotoluene | ND | 350 | ug/kg |
| 2,6-Dinitrotoluene | ND | 350 | ug/kg |
| Di-n-octyl phthalate | ND | 350 | ug/kg |
| **Fluoranthene** | **690** | **350** | **ug/kg** |
| Fluorene | ND | 350 | ug/kg |
| Hexachlorobenzene | ND | 350 | ug/kg |
| Hexachlorobutadiene | ND | 350 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 350 | ug/kg |
| Hexachloroethane | ND | 350 | ug/kg |
| **Indeno(1,2,3-cd)pyrene** | **130 J** | **350** | **ug/kg** |
| Isophorone | ND | 350 | ug/kg |
| **2-Methylnaphthalene** | **250 J** | **350** | **ug/kg** |
| 2-Methylphenol | ND | 350 | ug/kg |
| 4-Methylphenol | ND | 350 | ug/kg |
| **Naphthalene** | **170 J** | **350** | **ug/kg** |
| 2-Nitroaniline | ND | 1800 | ug/kg |
| 3-Nitroaniline | ND | 1800 | ug/kg |
| 4-Nitroaniline | ND | 1800 | ug/kg |
| Nitrobenzene | ND | 350 | ug/kg |
| 2-Nitrophenol | ND | 350 | ug/kg |
| 4-Nitrophenol | ND | 1800 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 350 | ug/kg |
| N-Nitrosodiphenylamine | ND | 350 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 350 | ug/kg |
| Pentachlorophenol | ND | 860 | ug/kg |
| **Phenanthrene** | **290 J** | **350** | **ug/kg** |
| Phenol | ND | 350 | ug/kg |
| **Pyrene** | **460** | **350** | **ug/kg** |
| 2,4,5-Trichloro-phenol | ND | 350 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 350 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV1AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 68 | (24 - 112) |
| 2-Fluorobiphenyl | 65 | (34 - 110) |
| Terphenyl-d14 | 85 | (41 - 119) |
| Phenol-d5 | 66 | (28 - 110) |
| 2-Fluorophenol | 65 | (26 - 110) |
| 2,4,6-Tribromophenol | 48 | (10 - 118) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV1AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:10 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 25 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 6700 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 42 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV1AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:10 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 10
**% Moisture.....:** 25 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **150** | **130** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 23 DIL | (10 - 110) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV1AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:10 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 25 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 350 | ug/kg |
| Aroclor 1221 | ND | 350 | ug/kg |
| Aroclor 1232 | ND | 350 | ug/kg |
| Aroclor 1242 | ND | 350 | ug/kg |
| Aroclor 1248 | ND | 350 | ug/kg |
| Aroclor 1254 | ND | 350 | ug/kg |
| Aroclor 1260 | ND | 350 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 75 | (10 - 196) |
| Decachlorobiphenyl | 65 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-003 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:10 **Date Received..:** 10/03/08
**% Moisture.....:** 25

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| **Antimony** | **1.1** | **0.67** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AD** |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **10.8** | **0.54** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **0.92** | **0.21** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AF** |
| | | Dilution Factor: 1 | | | | |
| **Cadmium** | **0.68** | **0.11** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AG** |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **14.6** | **0.54** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **167** | **1.1** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **218** | **0.32** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **9.7** | **1.1** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AL** |
| | | Dilution Factor: 1 | | | | |
| **Selenium** | **1.3** | **0.54** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AM** |
| | | Dilution Factor: 1 | | | | |
| **Silver** | **0.67** | **0.54** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AN** |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 1.1 | mg/kg | SW846 6010B | 10/06/08 | KX4PV1AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **356** | **2.1** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PV1AQ** |
| | | Dilution Factor: 1 | | | | |
| **Mercury** | **0.24** | **0.11** | **mg/kg** | **SW846 7471A** | **10/06/08** | **KX4PV1AR** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TMW3-(5'-7')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-003 **Work Order #...:** KX4PV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:10 **Date Received..:** 10/03/08
**% Moisture.....:** 25

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **74.7** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW1AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 0.95
**% Moisture.....:** 19 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **270 J,B** | **700** | **ug/kg** |
| Acrylonitrile | ND | 2300 | ug/kg |
| Benzene | ND | 47 | ug/kg |
| Bromobenzene | ND | 94 | ug/kg |
| Bromochloromethane | ND | 94 | ug/kg |
| Bromodichloromethane | ND | 94 | ug/kg |
| Bromoform | ND | 94 | ug/kg |
| Bromomethane | ND | 190 | ug/kg |
| 2-Butanone | ND | 700 | ug/kg |
| tert-Butyl alcohol | ND | 1200 | ug/kg |
| n-Butylbenzene | ND | 47 | ug/kg |
| sec-Butylbenzene | ND | 47 | ug/kg |
| tert-Butylbenzene | ND | 47 | ug/kg |
| Carbon disulfide | ND | 230 | ug/kg |
| Carbon tetrachloride | ND | 47 | ug/kg |
| Chlorobenzene | ND | 47 | ug/kg |
| Dibromochloromethane | ND | 47 | ug/kg |
| Chloroethane | ND | 230 | ug/kg |
| Chloroform | ND | 47 | ug/kg |
| Chloromethane | ND | 230 | ug/kg |
| Cyclohexane | ND | 470 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 230 | ug/kg |
| 1,2-Dibromoethane | ND | 230 | ug/kg |
| Dibromomethane | ND | 230 | ug/kg |
| 1,2-Dichlorobenzene | ND | 94 | ug/kg |
| 1,3-Dichlorobenzene | ND | 94 | ug/kg |
| 1,4-Dichlorobenzene | ND | 94 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 59 | ug/kg |
| Dichlorodifluoromethane | ND | 94 | ug/kg |
| 1,1-Dichloroethane | ND | 47 | ug/kg |
| 1,2-Dichloroethane | ND | 47 | ug/kg |
| cis-1,2-Dichloroethene | ND | 47 | ug/kg |
| trans-1,2-Dichloroethene | ND | 47 | ug/kg |
| 1,1-Dichloroethene | ND | 47 | ug/kg |
| 1,2-Dichloropropane | ND | 47 | ug/kg |
| cis-1,3-Dichloropropene | ND | 47 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW1AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 47 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 230 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 230 | ug/kg |
| Ethylbenzene | ND | 47 | ug/kg |
| Ethyl ether | ND | 190 | ug/kg |
| 2-Hexanone | ND | 2300 | ug/kg |
| Iodomethane | ND | 94 | ug/kg |
| Isopropylbenzene | ND | 230 | ug/kg |
| Isopropyl ether | ND | 230 | ug/kg |
| p-Isopropyltoluene | ND | 94 | ug/kg |
| Methylene chloride | ND | 230 | ug/kg |
| 2-Methylnaphthalene | ND | 310 | ug/kg |
| 4-Methyl-2-pentanone | ND | 2300 | ug/kg |
| Methyl tert-butyl ether | ND | 230 | ug/kg |
| **Naphthalene** | **180 J** | **230** | **ug/kg** |
| n-Propylbenzene | ND | 94 | ug/kg |
| Styrene | ND | 47 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 94 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 47 | ug/kg |
| Tetrachloroethene | ND | 47 | ug/kg |
| Tetrahydrofuran | ND | 940 | ug/kg |
| **Toluene** | **31 J** | **94** | **ug/kg** |
| 1,2,3-Trichlorobenzene | ND | 230 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 230 | ug/kg |
| 1,1,1-Trichloroethane | ND | 47 | ug/kg |
| 1,1,2-Trichloroethane | ND | 47 | ug/kg |
| Trichloroethene | ND | 47 | ug/kg |
| Trichlorofluoromethane | ND | 94 | ug/kg |
| 1,2,3-Trichloropropane | ND | 94 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 230 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 94 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 94 | ug/kg |
| Vinyl chloride | ND | 38 | ug/kg |
| **m-Xylene & p-Xylene** | **14 J** | **94** | **ug/kg** |
| **o-Xylene** | **11 J** | **47** | **ug/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 84 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 105 | (61 - 130) |
| Toluene-d8 | 85 | (60 - 143) |
| 4-Bromofluorobenzene | 83 | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW1AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW1AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 1000
**% Moisture.....:** 19 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acenaphthene** | **280000 J** | **330000** | **ug/kg** |
| Acenaphthylene | ND | 330000 | ug/kg |
| Acetophenone | ND | 330000 | ug/kg |
| **Anthracene** | **440000** | **330000** | **ug/kg** |
| Atrazine | ND | 330000 | ug/kg |
| **Benzo(a)anthracene** | **540000** | **330000** | **ug/kg** |
| **Benzo(a)pyrene** | **430000** | **330000** | **ug/kg** |
| **Benzo(b)fluoranthene** | **510000** | **330000** | **ug/kg** |
| **Benzo(ghi)perylene** | **220000 J** | **330000** | **ug/kg** |
| **Benzo(k)fluoranthene** | **170000 J** | **330000** | **ug/kg** |
| Benzaldehyde | ND | 330000 | ug/kg |
| **1,1'-Biphenyl** | **38000 J** | **330000** | **ug/kg** |
| bis(2-Chloroethoxy) methane | ND | 330000 | ug/kg |
| bis(2-Chloroethyl)- ether | ND | 330000 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 330000 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 330000 | ug/kg |
| Butyl benzyl phthalate | ND | 330000 | ug/kg |
| Caprolactam | ND | 330000 | ug/kg |
| **Carbazole** | **200000 J** | **330000** | **ug/kg** |
| 4-Chloroaniline | ND | 1700000 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 330000 | ug/kg |
| 2-Chloronaphthalene | ND | 330000 | ug/kg |
| 2-Chlorophenol | ND | 330000 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 330000 | ug/kg |
| **Chrysene** | **450000** | **330000** | **ug/kg** |
| **Dibenz(a,h)anthracene** | **68000 J** | **330000** | **ug/kg** |
| **Dibenzofuran** | **200000 J** | **330000** | **ug/kg** |
| 3,3'-Dichlorobenzidine | ND | 2000000 | ug/kg |
| 2,4-Dichlorophenol | ND | 330000 | ug/kg |
| Diethyl phthalate | ND | 330000 | ug/kg |
| 2,4-Dimethylphenol | ND | 330000 | ug/kg |
| Dimethyl phthalate | ND | 330000 | ug/kg |
| Di-n-butyl phthalate | ND | 330000 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW1AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 1700000 | ug/kg |
| 2,4-Dinitrophenol | ND | 1700000 | ug/kg |
| 2,4-Dinitrotoluene | ND | 330000 | ug/kg |
| 2,6-Dinitrotoluene | ND | 330000 | ug/kg |
| Di-n-octyl phthalate | ND | 330000 | ug/kg |
| **Fluoranthene** | **1400000** | **330000** | **ug/kg** |
| **Fluorene** | **280000 J** | **330000** | **ug/kg** |
| Hexachlorobenzene | ND | 330000 | ug/kg |
| Hexachlorobutadiene | ND | 330000 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 330000 | ug/kg |
| Hexachloroethane | ND | 330000 | ug/kg |
| **Indeno(1,2,3-cd)pyrene** | **210000 J** | **330000** | **ug/kg** |
| Isophorone | ND | 330000 | ug/kg |
| **2-Methylnaphthalene** | **190000 J** | **330000** | **ug/kg** |
| 2-Methylphenol | ND | 330000 | ug/kg |
| 4-Methylphenol | ND | 330000 | ug/kg |
| **Naphthalene** | **840000** | **330000** | **ug/kg** |
| 2-Nitroaniline | ND | 1700000 | ug/kg |
| 3-Nitroaniline | ND | 1700000 | ug/kg |
| 4-Nitroaniline | ND | 1700000 | ug/kg |
| Nitrobenzene | ND | 330000 | ug/kg |
| 2-Nitrophenol | ND | 330000 | ug/kg |
| 4-Nitrophenol | ND | 1700000 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 330000 | ug/kg |
| N-Nitrosodiphenylamine | ND | 330000 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 330000 | ug/kg |
| Pentachlorophenol | ND | 790000 | ug/kg |
| **Phenanthrene** | **1500000** | **330000** | **ug/kg** |
| Phenol | ND | 330000 | ug/kg |
| **Pyrene** | **990000** | **330000** | **ug/kg** |
| 2,4,5-Trichloro-phenol | ND | 330000 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 330000 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW1AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 0.0 DIL,* | (24 - 112) |
| 2-Fluorobiphenyl | 0.0 DIL,* | (34 - 110) |
| Terphenyl-d14 | 0.0 DIL,* | (41 - 119) |
| Phenol-d5 | 0.0 DIL,* | (28 - 110) |
| 2-Fluorophenol | 0.0 DIL,* | (26 - 110) |
| 2,4,6-Tribromophenol | 0.0 DIL,* | (10 - 118) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW1AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 6200 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 44 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW1AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 50
**% Moisture.....:** 19 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **1000** | **620** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 25 DIL | (10 - 110) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW1AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:50 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 330 | ug/kg |
| Aroclor 1221 | ND | 330 | ug/kg |
| Aroclor 1232 | ND | 330 | ug/kg |
| Aroclor 1242 | ND | 330 | ug/kg |
| Aroclor 1248 | ND | 330 | ug/kg |
| Aroclor 1254 | ND | 330 | ug/kg |
| Aroclor 1260 | ND | 330 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 73 | (10 - 196) |
| Decachlorobiphenyl | 106 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-004 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:50 **Date Received..:** 10/03/08
**% Moisture.....:** 19

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| Antimony | ND | 0.62 | mg/kg | SW846 6010B | 10/06/08 | KX4PW1AD |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **8.3** | **0.49** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PW1AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **0.30** | **0.20** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PW1AF** |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 0.099 | mg/kg | SW846 6010B | 10/06/08 | KX4PW1AG |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **14.9** | **0.49** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PW1AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **19.6** | **0.99** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PW1AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **50.0** | **0.30** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PW1AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **8.5** | **0.99** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PW1AL** |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 0.49 | mg/kg | SW846 6010B | 10/06/08 | KX4PW1AM |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 0.49 | mg/kg | SW846 6010B | 10/06/08 | KX4PW1AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 0.99 | mg/kg | SW846 6010B | 10/06/08 | KX4PW1AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **89.1** | **2.0** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4PW1AQ** |
| | | Dilution Factor: 1 | | | | |
| **Mercury** | **0.88** | **0.099** | **mg/kg** | **SW846 7471A** | **10/06/08** | **KX4PW1AR** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA8-1-(4'-5')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-004 **Work Order #...:** KX4PW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 10:50 **Date Received..:** 10/03/08
**% Moisture.....:** 19

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **80.9** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P31AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:20 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 1.35
**% Moisture.....:** 18 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **420 J,B** | **990** | **ug/kg** |
| Acrylonitrile | ND | 3300 | ug/kg |
| Benzene | ND | 66 | ug/kg |
| Bromobenzene | ND | 130 | ug/kg |
| Bromochloromethane | ND | 130 | ug/kg |
| Bromodichloromethane | ND | 130 | ug/kg |
| Bromoform | ND | 130 | ug/kg |
| Bromomethane | ND | 260 | ug/kg |
| 2-Butanone | ND | 990 | ug/kg |
| tert-Butyl alcohol | ND | 1700 | ug/kg |
| n-Butylbenzene | ND | 66 | ug/kg |
| sec-Butylbenzene | ND | 66 | ug/kg |
| tert-Butylbenzene | ND | 66 | ug/kg |
| Carbon disulfide | ND | 330 | ug/kg |
| Carbon tetrachloride | ND | 66 | ug/kg |
| Chlorobenzene | ND | 66 | ug/kg |
| Dibromochloromethane | ND | 66 | ug/kg |
| Chloroethane | ND | 330 | ug/kg |
| Chloroform | ND | 66 | ug/kg |
| Chloromethane | ND | 330 | ug/kg |
| Cyclohexane | ND | 660 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 330 | ug/kg |
| 1,2-Dibromoethane | ND | 330 | ug/kg |
| Dibromomethane | ND | 330 | ug/kg |
| 1,2-Dichlorobenzene | ND | 130 | ug/kg |
| 1,3-Dichlorobenzene | ND | 130 | ug/kg |
| 1,4-Dichlorobenzene | ND | 130 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 83 | ug/kg |
| Dichlorodifluoromethane | ND | 130 | ug/kg |
| 1,1-Dichloroethane | ND | 66 | ug/kg |
| 1,2-Dichloroethane | ND | 66 | ug/kg |
| cis-1,2-Dichloroethene | ND | 66 | ug/kg |
| trans-1,2-Dichloroethene | ND | 66 | ug/kg |
| 1,1-Dichloroethene | ND | 66 | ug/kg |
| 1,2-Dichloropropane | ND | 66 | ug/kg |
| cis-1,3-Dichloropropene | ND | 66 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P31AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 66 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 330 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 330 | ug/kg |
| Ethylbenzene | ND | 66 | ug/kg |
| Ethyl ether | ND | 260 | ug/kg |
| 2-Hexanone | ND | 3300 | ug/kg |
| Iodomethane | ND | 130 | ug/kg |
| Isopropylbenzene | ND | 330 | ug/kg |
| Isopropyl ether | ND | 330 | ug/kg |
| p-Isopropyltoluene | ND | 130 | ug/kg |
| Methylene chloride | ND | 330 | ug/kg |
| **2-Methylnaphthalene** | **29 J** | **440** | **ug/kg** |
| 4-Methyl-2-pentanone | ND | 3300 | ug/kg |
| Methyl tert-butyl ether | ND | 330 | ug/kg |
| **Naphthalene** | **49 J** | **330** | **ug/kg** |
| n-Propylbenzene | ND | 130 | ug/kg |
| Styrene | ND | 66 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 130 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 66 | ug/kg |
| Tetrachloroethene | ND | 66 | ug/kg |
| Tetrahydrofuran | ND | 1300 | ug/kg |
| **Toluene** | **130** | **130** | **ug/kg** |
| 1,2,3-Trichlorobenzene | ND | 330 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 330 | ug/kg |
| 1,1,1-Trichloroethane | ND | 66 | ug/kg |
| 1,1,2-Trichloroethane | ND | 66 | ug/kg |
| Trichloroethene | ND | 66 | ug/kg |
| Trichlorofluoromethane | ND | 130 | ug/kg |
| 1,2,3-Trichloropropane | ND | 130 | ug/kg |
| **1,2,3-Trimethylbenzene** | **6.7 J** | **330** | **ug/kg** |
| 1,2,4-Trimethylbenzene | ND | 130 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 130 | ug/kg |
| Vinyl chloride | ND | 53 | ug/kg |
| **m-Xylene & p-Xylene** | **25 J** | **130** | **ug/kg** |
| **o-Xylene** | **14 J** | **66** | **ug/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 83 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 104 | (61 - 130) |
| Toluene-d8 | 84 | (60 - 143) |
| 4-Bromofluorobenzene | 81 | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P31AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P31AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:20 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 1
**% Moisture.....:** 18 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Acenaphthene | ND | 320 | ug/kg |
| Acenaphthylene | ND | 320 | ug/kg |
| Acetophenone | ND | 320 | ug/kg |
| Anthracene | ND | 320 | ug/kg |
| Atrazine | ND | 320 | ug/kg |
| Benzo(a)anthracene | ND | 320 | ug/kg |
| Benzo(a)pyrene | ND | 320 | ug/kg |
| Benzo(b)fluoranthene | ND | 320 | ug/kg |
| Benzo(ghi)perylene | ND | 320 | ug/kg |
| Benzo(k)fluoranthene | ND | 320 | ug/kg |
| Benzaldehyde | ND | 320 | ug/kg |
| 1,1'-Biphenyl | ND | 320 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 320 | ug/kg |
| bis(2-Chloroethyl)- ether | ND | 320 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 320 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 320 | ug/kg |
| Butyl benzyl phthalate | ND | 320 | ug/kg |
| Caprolactam | ND | 320 | ug/kg |
| Carbazole | ND | 320 | ug/kg |
| 4-Chloroaniline | ND | 1700 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 320 | ug/kg |
| 2-Chloronaphthalene | ND | 320 | ug/kg |
| 2-Chlorophenol | ND | 320 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 320 | ug/kg |
| Chrysene | ND | 320 | ug/kg |
| Dibenz(a,h)anthracene | ND | 320 | ug/kg |
| Dibenzofuran | ND | 320 | ug/kg |
| 3,3'-Dichlorobenzidine | ND | 2000 | ug/kg |
| 2,4-Dichlorophenol | ND | 320 | ug/kg |
| **Diethyl phthalate** | **45 J** | **320** | **ug/kg** |
| 2,4-Dimethylphenol | ND | 320 | ug/kg |
| Dimethyl phthalate | ND | 320 | ug/kg |
| Di-n-butyl phthalate | ND | 320 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P31AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 1700 | ug/kg |
| 2,4-Dinitrophenol | ND | 1700 | ug/kg |
| 2,4-Dinitrotoluene | ND | 320 | ug/kg |
| 2,6-Dinitrotoluene | ND | 320 | ug/kg |
| Di-n-octyl phthalate | ND | 320 | ug/kg |
| Fluoranthene | ND | 320 | ug/kg |
| Fluorene | ND | 320 | ug/kg |
| Hexachlorobenzene | ND | 320 | ug/kg |
| Hexachlorobutadiene | ND | 320 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 320 | ug/kg |
| Hexachloroethane | ND | 320 | ug/kg |
| Indeno(1,2,3-cd)pyrene | ND | 320 | ug/kg |
| Isophorone | ND | 320 | ug/kg |
| 2-Methylnaphthalene | ND | 320 | ug/kg |
| 2-Methylphenol | ND | 320 | ug/kg |
| 4-Methylphenol | ND | 320 | ug/kg |
| Naphthalene | ND | 320 | ug/kg |
| 2-Nitroaniline | ND | 1700 | ug/kg |
| 3-Nitroaniline | ND | 1700 | ug/kg |
| 4-Nitroaniline | ND | 1700 | ug/kg |
| Nitrobenzene | ND | 320 | ug/kg |
| 2-Nitrophenol | ND | 320 | ug/kg |
| 4-Nitrophenol | ND | 1700 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 320 | ug/kg |
| **N-Nitrosodiphenylamine** | **33 J** | **320** | **ug/kg** |
| 2,2'-oxybis (1-Chloropropane) | ND | 320 | ug/kg |
| Pentachlorophenol | ND | 790 | ug/kg |
| Phenanthrene | ND | 320 | ug/kg |
| Phenol | ND | 320 | ug/kg |
| Pyrene | ND | 320 | ug/kg |
| 2,4,5-Trichloro-phenol | ND | 320 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 320 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P31AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 66 | (24 - 112) |
| 2-Fluorobiphenyl | 63 | (34 - 110) |
| Terphenyl-d14 | 97 | (41 - 119) |
| Phenol-d5 | 63 | (28 - 110) |
| 2-Fluorophenol | 66 | (26 - 110) |
| 2,4,6-Tribromophenol | 64 | (10 - 118) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P31AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:20 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 18 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Gasoline)** | **4500 J** | **6100** | **ug/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 39 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P31AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:20 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 1
**% Moisture.....:** 18 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **8.5 J** | **12** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 29 | (10 - 110) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P31AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:20 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 18 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 320 | ug/kg |
| Aroclor 1221 | ND | 320 | ug/kg |
| Aroclor 1232 | ND | 320 | ug/kg |
| Aroclor 1242 | ND | 320 | ug/kg |
| Aroclor 1248 | ND | 320 | ug/kg |
| Aroclor 1254 | ND | 320 | ug/kg |
| Aroclor 1260 | ND | 320 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 91 | (10 - 196) |
| Decachlorobiphenyl | 88 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-005 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:20 **Date Received..:** 10/03/08
**% Moisture.....:** 18

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| Antimony | ND | 0.61 | mg/kg | SW846 6010B | 10/06/08 | KX4P31AD |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **5.4** | **0.49** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P31AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **0.11 B** | **0.20** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P31AF** |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 0.098 | mg/kg | SW846 6010B | 10/06/08 | KX4P31AG |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **10.5** | **0.49** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P31AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **8.0** | **0.98** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P31AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **10.9** | **0.29** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P31AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **9.9** | **0.98** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P31AL** |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 0.49 | mg/kg | SW846 6010B | 10/06/08 | KX4P31AM |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 0.49 | mg/kg | SW846 6010B | 10/06/08 | KX4P31AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 0.98 | mg/kg | SW846 6010B | 10/06/08 | KX4P31AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **32.6** | **2.0** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P31AQ** |
| | | Dilution Factor: 1 | | | | |
| **Mercury** | **0.034 B** | **0.098** | **mg/kg** | **SW846 7471A** | **10/06/08** | **KX4P31AR** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA12-1-(2'-4')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-005 **Work Order #...:** KX4P3 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:20 **Date Received..:** 10/03/08
**% Moisture.....:** 18

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **81.5** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P51AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 1.03
**% Moisture.....:** 26 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **250 J,B** | **830** | **ug/kg** |
| Acrylonitrile | ND | 2800 | ug/kg |
| Benzene | ND | 56 | ug/kg |
| Bromobenzene | ND | 110 | ug/kg |
| Bromochloromethane | ND | 110 | ug/kg |
| Bromodichloromethane | ND | 110 | ug/kg |
| Bromoform | ND | 110 | ug/kg |
| Bromomethane | ND | 220 | ug/kg |
| 2-Butanone | ND | 830 | ug/kg |
| tert-Butyl alcohol | ND | 1400 | ug/kg |
| n-Butylbenzene | ND | 56 | ug/kg |
| sec-Butylbenzene | ND | 56 | ug/kg |
| tert-Butylbenzene | ND | 56 | ug/kg |
| Carbon disulfide | ND | 280 | ug/kg |
| Carbon tetrachloride | ND | 56 | ug/kg |
| Chlorobenzene | ND | 56 | ug/kg |
| Dibromochloromethane | ND | 56 | ug/kg |
| Chloroethane | ND | 280 | ug/kg |
| Chloroform | ND | 56 | ug/kg |
| Chloromethane | ND | 280 | ug/kg |
| Cyclohexane | ND | 560 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 280 | ug/kg |
| 1,2-Dibromoethane | ND | 280 | ug/kg |
| Dibromomethane | ND | 280 | ug/kg |
| 1,2-Dichlorobenzene | ND | 110 | ug/kg |
| 1,3-Dichlorobenzene | ND | 110 | ug/kg |
| 1,4-Dichlorobenzene | ND | 110 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 69 | ug/kg |
| Dichlorodifluoromethane | ND | 110 | ug/kg |
| 1,1-Dichloroethane | ND | 56 | ug/kg |
| 1,2-Dichloroethane | ND | 56 | ug/kg |
| cis-1,2-Dichloroethene | ND | 56 | ug/kg |
| trans-1,2-Dichloroethene | ND | 56 | ug/kg |
| 1,1-Dichloroethene | ND | 56 | ug/kg |
| 1,2-Dichloropropane | ND | 56 | ug/kg |
| cis-1,3-Dichloropropene | ND | 56 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P51AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 56 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 280 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 280 | ug/kg |
| Ethylbenzene | ND | 56 | ug/kg |
| Ethyl ether | ND | 220 | ug/kg |
| 2-Hexanone | ND | 2800 | ug/kg |
| Iodomethane | ND | 110 | ug/kg |
| Isopropylbenzene | ND | 280 | ug/kg |
| Isopropyl ether | ND | 280 | ug/kg |
| p-Isopropyltoluene | ND | 110 | ug/kg |
| Methylene chloride | ND | 280 | ug/kg |
| 2-Methylnaphthalene | ND | 370 | ug/kg |
| 4-Methyl-2-pentanone | ND | 2800 | ug/kg |
| Methyl tert-butyl ether | ND | 280 | ug/kg |
| Naphthalene | ND | 280 | ug/kg |
| n-Propylbenzene | ND | 110 | ug/kg |
| Styrene | ND | 56 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 110 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 56 | ug/kg |
| Tetrachloroethene | ND | 56 | ug/kg |
| Tetrahydrofuran | ND | 1100 | ug/kg |
| **Toluene** | **14 J** | **110** | **ug/kg** |
| 1,2,3-Trichlorobenzene | ND | 280 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 280 | ug/kg |
| 1,1,1-Trichloroethane | ND | 56 | ug/kg |
| 1,1,2-Trichloroethane | ND | 56 | ug/kg |
| Trichloroethene | ND | 56 | ug/kg |
| Trichlorofluoromethane | ND | 110 | ug/kg |
| 1,2,3-Trichloropropane | ND | 110 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 280 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 110 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 110 | ug/kg |
| Vinyl chloride | ND | 44 | ug/kg |
| m-Xylene & p-Xylene | ND | 110 | ug/kg |
| o-Xylene | ND | 56 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 72 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 92 | (61 - 130) |
| Toluene-d8 | 75 | (60 - 143) |
| 4-Bromofluorobenzene | 73 | (47 - 158) |

(Continued on next page)

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P51AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P51AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 40
**% Moisture.....:** 26 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acenaphthene** | **1400 J** | **14000** | **ug/kg** |
| Acenaphthylene | ND | 14000 | ug/kg |
| Acetophenone | ND | 14000 | ug/kg |
| **Anthracene** | **4300 J** | **14000** | **ug/kg** |
| Atrazine | ND | 14000 | ug/kg |
| **Benzo(a)anthracene** | **17000** | **14000** | **ug/kg** |
| **Benzo(a)pyrene** | **17000** | **14000** | **ug/kg** |
| **Benzo(b)fluoranthene** | **21000** | **14000** | **ug/kg** |
| **Benzo(ghi)perylene** | **12000 J** | **14000** | **ug/kg** |
| **Benzo(k)fluoranthene** | **6800 J** | **14000** | **ug/kg** |
| Benzaldehyde | ND | 14000 | ug/kg |
| 1,1'-Biphenyl | ND | 14000 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 14000 | ug/kg |
| bis(2-Chloroethyl)-ether | ND | 14000 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 14000 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 14000 | ug/kg |
| Butyl benzyl phthalate | ND | 14000 | ug/kg |
| Caprolactam | ND | 14000 | ug/kg |
| Carbazole | ND | 14000 | ug/kg |
| 4-Chloroaniline | ND | 73000 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 14000 | ug/kg |
| 2-Chloronaphthalene | ND | 14000 | ug/kg |
| 2-Chlorophenol | ND | 14000 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 14000 | ug/kg |
| **Chrysene** | **16000** | **14000** | **ug/kg** |
| **Dibenz(a,h)anthracene** | **2900 J** | **14000** | **ug/kg** |
| Dibenzofuran | ND | 14000 | ug/kg |
| 3,3'-Dichlorobenzidine | ND | 86000 | ug/kg |
| 2,4-Dichlorophenol | ND | 14000 | ug/kg |
| Diethyl phthalate | ND | 14000 | ug/kg |
| 2,4-Dimethylphenol | ND | 14000 | ug/kg |
| Dimethyl phthalate | ND | 14000 | ug/kg |
| Di-n-butyl phthalate | ND | 14000 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P51AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 73000 | ug/kg |
| 2,4-Dinitrophenol | ND | 73000 | ug/kg |
| 2,4-Dinitrotoluene | ND | 14000 | ug/kg |
| 2,6-Dinitrotoluene | ND | 14000 | ug/kg |
| Di-n-octyl phthalate | ND | 14000 | ug/kg |
| **Fluoranthene** | **44000** | **14000** | **ug/kg** |
| **Fluorene** | **850 J** | **14000** | **ug/kg** |
| Hexachlorobenzene | ND | 14000 | ug/kg |
| Hexachlorobutadiene | ND | 14000 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 14000 | ug/kg |
| Hexachloroethane | ND | 14000 | ug/kg |
| **Indeno(1,2,3-cd)pyrene** | **9700 J** | **14000** | **ug/kg** |
| Isophorone | ND | 14000 | ug/kg |
| 2-Methylnaphthalene | ND | 14000 | ug/kg |
| 2-Methylphenol | ND | 14000 | ug/kg |
| 4-Methylphenol | ND | 14000 | ug/kg |
| Naphthalene | ND | 14000 | ug/kg |
| 2-Nitroaniline | ND | 73000 | ug/kg |
| 3-Nitroaniline | ND | 73000 | ug/kg |
| 4-Nitroaniline | ND | 73000 | ug/kg |
| Nitrobenzene | ND | 14000 | ug/kg |
| 2-Nitrophenol | ND | 14000 | ug/kg |
| 4-Nitrophenol | ND | 73000 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 14000 | ug/kg |
| N-Nitrosodiphenylamine | ND | 14000 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 14000 | ug/kg |
| Pentachlorophenol | ND | 35000 | ug/kg |
| **Phenanthrene** | **16000** | **14000** | **ug/kg** |
| Phenol | ND | 14000 | ug/kg |
| **Pyrene** | **37000** | **14000** | **ug/kg** |
| 2,4,5-Trichloro-phenol | ND | 14000 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 14000 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P51AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 0.0 DIL,* | (24 - 112) |
| 2-Fluorobiphenyl | 0.0 DIL,* | (34 - 110) |
| Terphenyl-d14 | 0.0 DIL,* | (41 - 119) |
| Phenol-d5 | 0.0 DIL,* | (28 - 110) |
| 2-Fluorophenol | 0.0 DIL,* | (26 - 110) |
| 2,4,6-Tribromophenol | 0.0 DIL,* | (10 - 118) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P51AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 26 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 6700 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 37 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P51AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 10
**% Moisture.....:** 26 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **290** | **130** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 22 DIL | (10 - 110) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P51AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 26 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 360 | ug/kg |
| Aroclor 1221 | ND | 360 | ug/kg |
| Aroclor 1232 | ND | 360 | ug/kg |
| Aroclor 1242 | ND | 360 | ug/kg |
| Aroclor 1248 | ND | 360 | ug/kg |
| Aroclor 1254 | ND | 360 | ug/kg |
| Aroclor 1260 | ND | 360 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 38 | (10 - 196) |
| Decachlorobiphenyl | 37 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-006 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:40 **Date Received..:** 10/03/08
**% Moisture.....:** 26

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| **Antimony** | **3.2** | **0.67** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AD** |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **15.7** | **0.54** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **0.55** | **0.22** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AF** |
| | | Dilution Factor: 1 | | | | |
| **Cadmium** | **3.1** | **0.11** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AG** |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **37.2** | **0.54** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **136** | **1.1** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **558** | **0.32** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **15.1** | **1.1** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AL** |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 0.54 | mg/kg | SW846 6010B | 10/06/08 | KX4P51AM |
| | | Dilution Factor: 1 | | | | |
| **Silver** | **0.15 B** | **0.54** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AN** |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 1.1 | mg/kg | SW846 6010B | 10/06/08 | KX4P51AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **1110** | **2.2** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P51AQ** |
| | | Dilution Factor: 1 | | | | |
| **Mercury** | **2.2** | **0.11** | **mg/kg** | **SW846 7471A** | **10/06/08** | **KX4P51AR** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY3-1-(5'-7')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-006 **Work Order #...:** KX4P5 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 11:40 **Date Received..:** 10/03/08
**% Moisture.....:** 26

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **74.2** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P71AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 12:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 1.47
**% Moisture.....:** 20 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **360 J,B** | **1100** | **ug/kg** |
| Acrylonitrile | ND | 3700 | ug/kg |
| Benzene | ND | 74 | ug/kg |
| Bromobenzene | ND | 150 | ug/kg |
| Bromochloromethane | ND | 150 | ug/kg |
| Bromodichloromethane | ND | 150 | ug/kg |
| Bromoform | ND | 150 | ug/kg |
| Bromomethane | ND | 300 | ug/kg |
| 2-Butanone | ND | 1100 | ug/kg |
| tert-Butyl alcohol | ND | 1800 | ug/kg |
| n-Butylbenzene | ND | 74 | ug/kg |
| sec-Butylbenzene | ND | 74 | ug/kg |
| tert-Butylbenzene | ND | 74 | ug/kg |
| Carbon disulfide | ND | 370 | ug/kg |
| Carbon tetrachloride | ND | 74 | ug/kg |
| Chlorobenzene | ND | 74 | ug/kg |
| Dibromochloromethane | ND | 74 | ug/kg |
| Chloroethane | ND | 370 | ug/kg |
| Chloroform | ND | 74 | ug/kg |
| Chloromethane | ND | 370 | ug/kg |
| Cyclohexane | ND | 740 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 370 | ug/kg |
| 1,2-Dibromoethane | ND | 370 | ug/kg |
| Dibromomethane | ND | 370 | ug/kg |
| 1,2-Dichlorobenzene | ND | 150 | ug/kg |
| 1,3-Dichlorobenzene | ND | 150 | ug/kg |
| 1,4-Dichlorobenzene | ND | 150 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 92 | ug/kg |
| Dichlorodifluoromethane | ND | 150 | ug/kg |
| 1,1-Dichloroethane | ND | 74 | ug/kg |
| 1,2-Dichloroethane | ND | 74 | ug/kg |
| cis-1,2-Dichloroethene | ND | 74 | ug/kg |
| trans-1,2-Dichloroethene | ND | 74 | ug/kg |
| 1,1-Dichloroethene | ND | 74 | ug/kg |
| 1,2-Dichloropropane | ND | 74 | ug/kg |
| cis-1,3-Dichloropropene | ND | 74 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P71AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 74 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 370 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 370 | ug/kg |
| Ethylbenzene | ND | 74 | ug/kg |
| Ethyl ether | ND | 300 | ug/kg |
| 2-Hexanone | ND | 3700 | ug/kg |
| Iodomethane | ND | 150 | ug/kg |
| Isopropylbenzene | ND | 370 | ug/kg |
| Isopropyl ether | ND | 370 | ug/kg |
| p-Isopropyltoluene | ND | 150 | ug/kg |
| Methylene chloride | ND | 370 | ug/kg |
| 2-Methylnaphthalene | ND | 490 | ug/kg |
| 4-Methyl-2-pentanone | ND | 3700 | ug/kg |
| Methyl tert-butyl ether | ND | 370 | ug/kg |
| **Naphthalene** | **59 J** | **370** | **ug/kg** |
| n-Propylbenzene | ND | 150 | ug/kg |
| Styrene | ND | 74 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 150 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 74 | ug/kg |
| Tetrachloroethene | ND | 74 | ug/kg |
| Tetrahydrofuran | ND | 1500 | ug/kg |
| **Toluene** | **25 J** | **150** | **ug/kg** |
| 1,2,3-Trichlorobenzene | ND | 370 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 370 | ug/kg |
| 1,1,1-Trichloroethane | ND | 74 | ug/kg |
| 1,1,2-Trichloroethane | ND | 74 | ug/kg |
| Trichloroethene | ND | 74 | ug/kg |
| Trichlorofluoromethane | ND | 150 | ug/kg |
| 1,2,3-Trichloropropane | ND | 150 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 370 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 150 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 150 | ug/kg |
| Vinyl chloride | ND | 59 | ug/kg |
| m-Xylene & p-Xylene | ND | 150 | ug/kg |
| o-Xylene | ND | 74 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 73 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 92 | (61 - 130) |
| Toluene-d8 | 75 | (60 - 143) |
| 4-Bromofluorobenzene | 73 | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P71AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P71AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 12:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 5
**% Moisture.....:** 20 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acenaphthene** | **230 J** | **1700** | **ug/kg** |
| **Acenaphthylene** | **100 J** | **1700** | **ug/kg** |
| Acetophenone | ND | 1700 | ug/kg |
| **Anthracene** | **670 J** | **1700** | **ug/kg** |
| Atrazine | ND | 1700 | ug/kg |
| **Benzo(a)anthracene** | **2300** | **1700** | **ug/kg** |
| **Benzo(a)pyrene** | **2200** | **1700** | **ug/kg** |
| **Benzo(b)fluoranthene** | **3200** | **1700** | **ug/kg** |
| **Benzo(ghi)perylene** | **1600 J** | **1700** | **ug/kg** |
| **Benzo(k)fluoranthene** | **950 J** | **1700** | **ug/kg** |
| Benzaldehyde | ND | 1700 | ug/kg |
| 1,1'-Biphenyl | ND | 1700 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 1700 | ug/kg |
| bis(2-Chloroethyl)-ether | ND | 1700 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 1700 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 1700 | ug/kg |
| Butyl benzyl phthalate | ND | 1700 | ug/kg |
| Caprolactam | ND | 1700 | ug/kg |
| **Carbazole** | **200 J** | **1700** | **ug/kg** |
| 4-Chloroaniline | ND | 8500 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 1700 | ug/kg |
| 2-Chloronaphthalene | ND | 1700 | ug/kg |
| 2-Chlorophenol | ND | 1700 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 1700 | ug/kg |
| **Chrysene** | **2400** | **1700** | **ug/kg** |
| **Dibenz(a,h)anthracene** | **410 J** | **1700** | **ug/kg** |
| Dibenzofuran | ND | 1700 | ug/kg |
| 3,3'-Dichlorobenzidine | ND | 10000 | ug/kg |
| 2,4-Dichlorophenol | ND | 1700 | ug/kg |
| Diethyl phthalate | ND | 1700 | ug/kg |
| 2,4-Dimethylphenol | ND | 1700 | ug/kg |
| Dimethyl phthalate | ND | 1700 | ug/kg |
| Di-n-butyl phthalate | ND | 1700 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P71AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 8500 | ug/kg |
| 2,4-Dinitrophenol | ND | 8500 | ug/kg |
| 2,4-Dinitrotoluene | ND | 1700 | ug/kg |
| 2,6-Dinitrotoluene | ND | 1700 | ug/kg |
| Di-n-octyl phthalate | ND | 1700 | ug/kg |
| **Fluoranthene** | **5500** | **1700** | **ug/kg** |
| **Fluorene** | **180 J** | **1700** | **ug/kg** |
| Hexachlorobenzene | ND | 1700 | ug/kg |
| Hexachlorobutadiene | ND | 1700 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 1700 | ug/kg |
| Hexachloroethane | ND | 1700 | ug/kg |
| **Indeno(1,2,3-cd)pyrene** | **1300 J** | **1700** | **ug/kg** |
| Isophorone | ND | 1700 | ug/kg |
| **2-Methylnaphthalene** | **180 J** | **1700** | **ug/kg** |
| 2-Methylphenol | ND | 1700 | ug/kg |
| 4-Methylphenol | ND | 1700 | ug/kg |
| **Naphthalene** | **160 J** | **1700** | **ug/kg** |
| 2-Nitroaniline | ND | 8500 | ug/kg |
| 3-Nitroaniline | ND | 8500 | ug/kg |
| 4-Nitroaniline | ND | 8500 | ug/kg |
| Nitrobenzene | ND | 1700 | ug/kg |
| 2-Nitrophenol | ND | 1700 | ug/kg |
| 4-Nitrophenol | ND | 8500 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 1700 | ug/kg |
| N-Nitrosodiphenylamine | ND | 1700 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 1700 | ug/kg |
| Pentachlorophenol | ND | 4000 | ug/kg |
| **Phenanthrene** | **1900** | **1700** | **ug/kg** |
| Phenol | ND | 1700 | ug/kg |
| **Pyrene** | **4200** | **1700** | **ug/kg** |
| 2,4,5-Trichloro-phenol | ND | 1700 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 1700 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P71AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 54 DIL | (24 - 112) |
| 2-Fluorobiphenyl | 57 DIL | (34 - 110) |
| Terphenyl-d14 | 79 DIL | (41 - 119) |
| Phenol-d5 | 56 DIL | (28 - 110) |
| 2-Fluorophenol | 50 DIL | (26 - 110) |
| 2,4,6-Tribromophenol | 58 DIL | (10 - 118) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P71AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 12:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 20 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Gasoline)** | **2200 J** | **6300** | **ug/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 39 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P71AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 12:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 10
**% Moisture.....:** 20 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **540** | **130** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 24 DIL | (10 - 110) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P71AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 12:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 20 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 330 | ug/kg |
| Aroclor 1221 | ND | 330 | ug/kg |
| Aroclor 1232 | ND | 330 | ug/kg |
| Aroclor 1242 | ND | 330 | ug/kg |
| Aroclor 1248 | ND | 330 | ug/kg |
| Aroclor 1254 | ND | 330 | ug/kg |
| Aroclor 1260 | ND | 330 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 115 | (10 - 196) |
| Decachlorobiphenyl | 80 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-007 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 12:00 **Date Received..:** 10/03/08
**% Moisture.....:** 20

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| **Antimony** | **1.9** | **0.63** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AD** |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **13.3** | **0.50** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **0.38** | **0.20** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AF** |
| | | Dilution Factor: 1 | | | | |
| **Cadmium** | **0.80** | **0.10** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AG** |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **12.7** | **0.50** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **57.9** | **1.0** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **279** | **0.30** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **8.2** | **1.0** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AL** |
| | | Dilution Factor: 1 | | | | |
| **Selenium** | **0.45 B** | **0.50** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AM** |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 0.50 | mg/kg | SW846 6010B | 10/06/08 | KX4P71AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 1.0 | mg/kg | SW846 6010B | 10/06/08 | KX4P71AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **290** | **2.0** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P71AQ** |
| | | Dilution Factor: 1 | | | | |
| **Mercury** | **0.40** | **0.10** | **mg/kg** | **SW846 7471A** | **10/06/08** | **KX4P71AR** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY2-1-(3'-5')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-007 **Work Order #...:** KX4P7 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 12:00 **Date Received..:** 10/03/08
**% Moisture.....:** 20

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **79.5** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P81AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 0.99
**% Moisture.....:** 19 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **210 J,B** | **730** | **ug/kg** |
| Acrylonitrile | ND | 2400 | ug/kg |
| Benzene | ND | 49 | ug/kg |
| Bromobenzene | ND | 97 | ug/kg |
| Bromochloromethane | ND | 97 | ug/kg |
| Bromodichloromethane | ND | 97 | ug/kg |
| Bromoform | ND | 97 | ug/kg |
| Bromomethane | ND | 190 | ug/kg |
| 2-Butanone | ND | 730 | ug/kg |
| tert-Butyl alcohol | ND | 1200 | ug/kg |
| n-Butylbenzene | ND | 49 | ug/kg |
| sec-Butylbenzene | ND | 49 | ug/kg |
| tert-Butylbenzene | ND | 49 | ug/kg |
| Carbon disulfide | ND | 240 | ug/kg |
| Carbon tetrachloride | ND | 49 | ug/kg |
| Chlorobenzene | ND | 49 | ug/kg |
| Dibromochloromethane | ND | 49 | ug/kg |
| Chloroethane | ND | 240 | ug/kg |
| Chloroform | ND | 49 | ug/kg |
| Chloromethane | ND | 240 | ug/kg |
| Cyclohexane | ND | 490 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 240 | ug/kg |
| 1,2-Dibromoethane | ND | 240 | ug/kg |
| Dibromomethane | ND | 240 | ug/kg |
| 1,2-Dichlorobenzene | ND | 97 | ug/kg |
| 1,3-Dichlorobenzene | ND | 97 | ug/kg |
| 1,4-Dichlorobenzene | ND | 97 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 61 | ug/kg |
| Dichlorodifluoromethane | ND | 97 | ug/kg |
| 1,1-Dichloroethane | ND | 49 | ug/kg |
| 1,2-Dichloroethane | ND | 49 | ug/kg |
| cis-1,2-Dichloroethene | ND | 49 | ug/kg |
| trans-1,2-Dichloroethene | ND | 49 | ug/kg |
| 1,1-Dichloroethene | ND | 49 | ug/kg |
| 1,2-Dichloropropane | ND | 49 | ug/kg |
| cis-1,3-Dichloropropene | ND | 49 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P81AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 49 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 240 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 240 | ug/kg |
| Ethylbenzene | ND | 49 | ug/kg |
| Ethyl ether | ND | 190 | ug/kg |
| 2-Hexanone | ND | 2400 | ug/kg |
| Iodomethane | ND | 97 | ug/kg |
| Isopropylbenzene | ND | 240 | ug/kg |
| Isopropyl ether | ND | 240 | ug/kg |
| p-Isopropyltoluene | ND | 97 | ug/kg |
| Methylene chloride | ND | 240 | ug/kg |
| 2-Methylnaphthalene | ND | 320 | ug/kg |
| 4-Methyl-2-pentanone | ND | 2400 | ug/kg |
| Methyl tert-butyl ether | ND | 240 | ug/kg |
| Naphthalene | ND | 240 | ug/kg |
| n-Propylbenzene | ND | 97 | ug/kg |
| Styrene | ND | 49 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 97 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 49 | ug/kg |
| Tetrachloroethene | ND | 49 | ug/kg |
| Tetrahydrofuran | ND | 970 | ug/kg |
| Toluene | ND | 97 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 240 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 240 | ug/kg |
| 1,1,1-Trichloroethane | ND | 49 | ug/kg |
| 1,1,2-Trichloroethane | ND | 49 | ug/kg |
| Trichloroethene | ND | 49 | ug/kg |
| Trichlorofluoromethane | ND | 97 | ug/kg |
| 1,2,3-Trichloropropane | ND | 97 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 240 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 97 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 97 | ug/kg |
| Vinyl chloride | ND | 39 | ug/kg |
| m-Xylene & p-Xylene | ND | 97 | ug/kg |
| o-Xylene | ND | 49 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 86 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 111 | (61 - 130) |
| Toluene-d8 | 89 | (60 - 143) |
| 4-Bromofluorobenzene | 90 | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P81AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P81AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Acenaphthene | ND | 320 | ug/kg |
| Acenaphthylene | ND | 320 | ug/kg |
| Acetophenone | ND | 320 | ug/kg |
| Anthracene | ND | 320 | ug/kg |
| Atrazine | ND | 320 | ug/kg |
| Benzo(a)anthracene | ND | 320 | ug/kg |
| Benzo(a)pyrene | ND | 320 | ug/kg |
| Benzo(b)fluoranthene | ND | 320 | ug/kg |
| Benzo(ghi)perylene | ND | 320 | ug/kg |
| Benzo(k)fluoranthene | ND | 320 | ug/kg |
| Benzaldehyde | ND | 320 | ug/kg |
| 1,1'-Biphenyl | ND | 320 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 320 | ug/kg |
| bis(2-Chloroethyl)- ether | ND | 320 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 320 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 320 | ug/kg |
| Butyl benzyl phthalate | ND | 320 | ug/kg |
| Caprolactam | ND | 320 | ug/kg |
| Carbazole | ND | 320 | ug/kg |
| 4-Chloroaniline | ND | 1700 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 320 | ug/kg |
| 2-Chloronaphthalene | ND | 320 | ug/kg |
| 2-Chlorophenol | ND | 320 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 320 | ug/kg |
| Chrysene | ND | 320 | ug/kg |
| Dibenz(a,h)anthracene | ND | 320 | ug/kg |
| Dibenzofuran | ND | 320 | ug/kg |
| 3,3'-Dichlorobenzidine | ND | 2000 | ug/kg |
| 2,4-Dichlorophenol | ND | 320 | ug/kg |
| Diethyl phthalate | ND | 320 | ug/kg |
| 2,4-Dimethylphenol | ND | 320 | ug/kg |
| Dimethyl phthalate | ND | 320 | ug/kg |
| Di-n-butyl phthalate | ND | 320 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P81AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 1700 | ug/kg |
| 2,4-Dinitrophenol | ND | 1700 | ug/kg |
| 2,4-Dinitrotoluene | ND | 320 | ug/kg |
| 2,6-Dinitrotoluene | ND | 320 | ug/kg |
| Di-n-octyl phthalate | ND | 320 | ug/kg |
| Fluoranthene | ND | 320 | ug/kg |
| Fluorene | ND | 320 | ug/kg |
| Hexachlorobenzene | ND | 320 | ug/kg |
| Hexachlorobutadiene | ND | 320 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 320 | ug/kg |
| Hexachloroethane | ND | 320 | ug/kg |
| Indeno(1,2,3-cd)pyrene | ND | 320 | ug/kg |
| Isophorone | ND | 320 | ug/kg |
| 2-Methylnaphthalene | ND | 320 | ug/kg |
| 2-Methylphenol | ND | 320 | ug/kg |
| 4-Methylphenol | ND | 320 | ug/kg |
| Naphthalene | ND | 320 | ug/kg |
| 2-Nitroaniline | ND | 1700 | ug/kg |
| 3-Nitroaniline | ND | 1700 | ug/kg |
| 4-Nitroaniline | ND | 1700 | ug/kg |
| Nitrobenzene | ND | 320 | ug/kg |
| 2-Nitrophenol | ND | 320 | ug/kg |
| 4-Nitrophenol | ND | 1700 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 320 | ug/kg |
| N-Nitrosodiphenylamine | ND | 320 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 320 | ug/kg |
| Pentachlorophenol | ND | 790 | ug/kg |
| Phenanthrene | ND | 320 | ug/kg |
| Phenol | ND | 320 | ug/kg |
| Pyrene | ND | 320 | ug/kg |
| 2,4,5-Trichloro-phenol | ND | 320 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 320 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P81AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 52 | (24 - 112) |
| 2-Fluorobiphenyl | 54 | (34 - 110) |
| Terphenyl-d14 | 85 | (41 - 119) |
| Phenol-d5 | 52 | (28 - 110) |
| 2-Fluorophenol | 49 | (26 - 110) |
| 2,4,6-Tribromophenol | 53 | (10 - 118) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P81AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 6200 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 34 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P81AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **3.5 J** | **12** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 26 | (10 - 110) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P81AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:15 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 320 | ug/kg |
| Aroclor 1221 | ND | 320 | ug/kg |
| Aroclor 1232 | ND | 320 | ug/kg |
| Aroclor 1242 | ND | 320 | ug/kg |
| Aroclor 1248 | ND | 320 | ug/kg |
| Aroclor 1254 | ND | 320 | ug/kg |
| Aroclor 1260 | ND | 320 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 89 | (10 - 196) |
| Decachlorobiphenyl | 73 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-008 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:15 **Date Received..:** 10/03/08
**% Moisture.....:** 19

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| Antimony | ND | 0.62 | mg/kg | SW846 6010B | 10/06/08 | KX4P81AD |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **5.4** | **0.49** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P81AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **0.095 B** | **0.20** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P81AF** |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 0.098 | mg/kg | SW846 6010B | 10/06/08 | KX4P81AG |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **13.4** | **0.49** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P81AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **15.1** | **0.98** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P81AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **5.8** | **0.30** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P81AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **10.7** | **0.98** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P81AL** |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 0.49 | mg/kg | SW846 6010B | 10/06/08 | KX4P81AM |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 0.49 | mg/kg | SW846 6010B | 10/06/08 | KX4P81AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 0.98 | mg/kg | SW846 6010B | 10/06/08 | KX4P81AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **23.8** | **2.0** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P81AQ** |
| | | Dilution Factor: 1 | | | | |
| **Mercury** | **0.025 B** | **0.098** | **mg/kg** | **SW846 7471A** | **10/06/08** | **KX4P81AR** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY4-1-(2'-4')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-008 **Work Order #...:** KX4P8 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:15 **Date Received..:** 10/03/08
**% Moisture.....:** 19

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **81.3** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P91AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 0.95
**% Moisture.....:** 19 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **170 J,B** | **710** | **ug/kg** |
| Acrylonitrile | ND | 2400 | ug/kg |
| Benzene | ND | 47 | ug/kg |
| Bromobenzene | ND | 94 | ug/kg |
| Bromochloromethane | ND | 94 | ug/kg |
| Bromodichloromethane | ND | 94 | ug/kg |
| Bromoform | ND | 94 | ug/kg |
| Bromomethane | ND | 190 | ug/kg |
| 2-Butanone | ND | 710 | ug/kg |
| tert-Butyl alcohol | ND | 1200 | ug/kg |
| n-Butylbenzene | ND | 47 | ug/kg |
| sec-Butylbenzene | ND | 47 | ug/kg |
| tert-Butylbenzene | ND | 47 | ug/kg |
| Carbon disulfide | ND | 240 | ug/kg |
| Carbon tetrachloride | ND | 47 | ug/kg |
| Chlorobenzene | ND | 47 | ug/kg |
| Dibromochloromethane | ND | 47 | ug/kg |
| Chloroethane | ND | 240 | ug/kg |
| Chloroform | ND | 47 | ug/kg |
| Chloromethane | ND | 240 | ug/kg |
| Cyclohexane | ND | 470 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 240 | ug/kg |
| 1,2-Dibromoethane | ND | 240 | ug/kg |
| Dibromomethane | ND | 240 | ug/kg |
| 1,2-Dichlorobenzene | ND | 94 | ug/kg |
| 1,3-Dichlorobenzene | ND | 94 | ug/kg |
| 1,4-Dichlorobenzene | ND | 94 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 59 | ug/kg |
| Dichlorodifluoromethane | ND | 94 | ug/kg |
| 1,1-Dichloroethane | ND | 47 | ug/kg |
| 1,2-Dichloroethane | ND | 47 | ug/kg |
| cis-1,2-Dichloroethene | ND | 47 | ug/kg |
| trans-1,2-Dichloroethene | ND | 47 | ug/kg |
| 1,1-Dichloroethene | ND | 47 | ug/kg |
| 1,2-Dichloropropane | ND | 47 | ug/kg |
| cis-1,3-Dichloropropene | ND | 47 | ug/kg |

(Continued on next page)

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P91AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 47 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 240 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 240 | ug/kg |
| Ethylbenzene | ND | 47 | ug/kg |
| Ethyl ether | ND | 190 | ug/kg |
| 2-Hexanone | ND | 2400 | ug/kg |
| Iodomethane | ND | 94 | ug/kg |
| Isopropylbenzene | ND | 240 | ug/kg |
| Isopropyl ether | ND | 240 | ug/kg |
| p-Isopropyltoluene | ND | 94 | ug/kg |
| Methylene chloride | ND | 240 | ug/kg |
| 2-Methylnaphthalene | ND | 310 | ug/kg |
| 4-Methyl-2-pentanone | ND | 2400 | ug/kg |
| Methyl tert-butyl ether | ND | 240 | ug/kg |
| Naphthalene | ND | 240 | ug/kg |
| n-Propylbenzene | ND | 94 | ug/kg |
| Styrene | ND | 47 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 94 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 47 | ug/kg |
| Tetrachloroethene | ND | 47 | ug/kg |
| Tetrahydrofuran | ND | 940 | ug/kg |
| Toluene | ND | 94 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 240 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 240 | ug/kg |
| 1,1,1-Trichloroethane | ND | 47 | ug/kg |
| 1,1,2-Trichloroethane | ND | 47 | ug/kg |
| Trichloroethene | ND | 47 | ug/kg |
| Trichlorofluoromethane | ND | 94 | ug/kg |
| 1,2,3-Trichloropropane | ND | 94 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 240 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 94 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 94 | ug/kg |
| Vinyl chloride | ND | 38 | ug/kg |
| m-Xylene & p-Xylene | ND | 94 | ug/kg |
| o-Xylene | ND | 47 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 82 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 104 | (61 - 130) |
| Toluene-d8 | 84 | (60 - 143) |
| 4-Bromofluorobenzene | 85 | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P91AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P91AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Acenaphthene | ND | 330 | ug/kg |
| Acenaphthylene | ND | 330 | ug/kg |
| Acetophenone | ND | 330 | ug/kg |
| Anthracene | ND | 330 | ug/kg |
| Atrazine | ND | 330 | ug/kg |
| Benzo(a)anthracene | ND | 330 | ug/kg |
| Benzo(a)pyrene | ND | 330 | ug/kg |
| Benzo(b)fluoranthene | ND | 330 | ug/kg |
| Benzo(ghi)perylene | ND | 330 | ug/kg |
| Benzo(k)fluoranthene | ND | 330 | ug/kg |
| Benzaldehyde | ND | 330 | ug/kg |
| 1,1'-Biphenyl | ND | 330 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 330 | ug/kg |
| bis(2-Chloroethyl)-ether | ND | 330 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 330 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 330 | ug/kg |
| Butyl benzyl phthalate | ND | 330 | ug/kg |
| Caprolactam | ND | 330 | ug/kg |
| Carbazole | ND | 330 | ug/kg |
| 4-Chloroaniline | ND | 1700 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 330 | ug/kg |
| 2-Chloronaphthalene | ND | 330 | ug/kg |
| 2-Chlorophenol | ND | 330 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 330 | ug/kg |
| Chrysene | ND | 330 | ug/kg |
| Dibenz(a,h)anthracene | ND | 330 | ug/kg |
| Dibenzofuran | ND | 330 | ug/kg |
| 3,3'-Dichlorobenzidine | ND | 2000 | ug/kg |
| 2,4-Dichlorophenol | ND | 330 | ug/kg |
| Diethyl phthalate | ND | 330 | ug/kg |
| 2,4-Dimethylphenol | ND | 330 | ug/kg |
| Dimethyl phthalate | ND | 330 | ug/kg |
| Di-n-butyl phthalate | ND | 330 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P91AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 1700 | ug/kg |
| 2,4-Dinitrophenol | ND | 1700 | ug/kg |
| 2,4-Dinitrotoluene | ND | 330 | ug/kg |
| 2,6-Dinitrotoluene | ND | 330 | ug/kg |
| Di-n-octyl phthalate | ND | 330 | ug/kg |
| Fluoranthene | ND | 330 | ug/kg |
| Fluorene | ND | 330 | ug/kg |
| Hexachlorobenzene | ND | 330 | ug/kg |
| Hexachlorobutadiene | ND | 330 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 330 | ug/kg |
| Hexachloroethane | ND | 330 | ug/kg |
| Indeno(1,2,3-cd)pyrene | ND | 330 | ug/kg |
| Isophorone | ND | 330 | ug/kg |
| 2-Methylnaphthalene | ND | 330 | ug/kg |
| 2-Methylphenol | ND | 330 | ug/kg |
| 4-Methylphenol | ND | 330 | ug/kg |
| Naphthalene | ND | 330 | ug/kg |
| 2-Nitroaniline | ND | 1700 | ug/kg |
| 3-Nitroaniline | ND | 1700 | ug/kg |
| 4-Nitroaniline | ND | 1700 | ug/kg |
| Nitrobenzene | ND | 330 | ug/kg |
| 2-Nitrophenol | ND | 330 | ug/kg |
| 4-Nitrophenol | ND | 1700 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 330 | ug/kg |
| N-Nitrosodiphenylamine | ND | 330 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 330 | ug/kg |
| Pentachlorophenol | ND | 790 | ug/kg |
| Phenanthrene | ND | 330 | ug/kg |
| Phenol | ND | 330 | ug/kg |
| Pyrene | ND | 330 | ug/kg |
| 2,4,5-Trichloro-phenol | ND | 330 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 330 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P91AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 67 | (24 - 112) |
| 2-Fluorobiphenyl | 64 | (34 - 110) |
| Terphenyl-d14 | 93 | (41 - 119) |
| Phenol-d5 | 68 | (28 - 110) |
| 2-Fluorophenol | 66 | (26 - 110) |
| 2,4,6-Tribromophenol | 51 | (10 - 118) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P91AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| TPH (as Gasoline) | ND | 6200 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 35 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P91AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **44** | **12** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 29 | (10 - 110) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P91AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:40 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 19 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 330 | ug/kg |
| Aroclor 1221 | ND | 330 | ug/kg |
| Aroclor 1232 | ND | 330 | ug/kg |
| Aroclor 1242 | ND | 330 | ug/kg |
| Aroclor 1248 | ND | 330 | ug/kg |
| Aroclor 1254 | ND | 330 | ug/kg |
| Aroclor 1260 | ND | 330 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 99 | (10 - 196) |
| Decachlorobiphenyl | 80 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-009 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:40 **Date Received..:** 10/03/08
**% Moisture.....:** 19

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| **Antimony** | **0.49 B** | **0.62** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P91AD** |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **1.4** | **0.50** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P91AE** |
| | | Dilution Factor: 1 | | | | |
| Beryllium | ND | 0.20 | mg/kg | SW846 6010B | 10/06/08 | KX4P91AF |
| | | Dilution Factor: 1 | | | | |
| **Cadmium** | **0.058 B** | **0.099** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P91AG** |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **3.3** | **0.50** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P91AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **2.5** | **0.99** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P91AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **88.5** | **0.30** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P91AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **2.7** | **0.99** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P91AL** |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 0.50 | mg/kg | SW846 6010B | 10/06/08 | KX4P91AM |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 0.50 | mg/kg | SW846 6010B | 10/06/08 | KX4P91AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 0.99 | mg/kg | SW846 6010B | 10/06/08 | KX4P91AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **20.2** | **2.0** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4P91AQ** |
| | | Dilution Factor: 1 | | | | |
| Mercury | ND | 0.099 | mg/kg | SW846 7471A | 10/06/08 | KX4P91AR |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBCY1-1-(4'-6')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-009 **Work Order #...:** KX4P9 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 13:40 **Date Received..:** 10/03/08
**% Moisture.....:** 19

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **80.5** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA1AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 2.74
**% Moisture.....:** 18 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **440 J,B** | **2000** | **ug/kg** |
| Acrylonitrile | ND | 6700 | ug/kg |
| Benzene | ND | 130 | ug/kg |
| Bromobenzene | ND | 270 | ug/kg |
| Bromochloromethane | ND | 270 | ug/kg |
| Bromodichloromethane | ND | 270 | ug/kg |
| Bromoform | ND | 270 | ug/kg |
| Bromomethane | ND | 540 | ug/kg |
| 2-Butanone | ND | 2000 | ug/kg |
| tert-Butyl alcohol | ND | 3400 | ug/kg |
| n-Butylbenzene | ND | 130 | ug/kg |
| sec-Butylbenzene | ND | 130 | ug/kg |
| tert-Butylbenzene | ND | 130 | ug/kg |
| Carbon disulfide | ND | 670 | ug/kg |
| Carbon tetrachloride | ND | 130 | ug/kg |
| Chlorobenzene | ND | 130 | ug/kg |
| Dibromochloromethane | ND | 130 | ug/kg |
| Chloroethane | ND | 670 | ug/kg |
| Chloroform | ND | 130 | ug/kg |
| Chloromethane | ND | 670 | ug/kg |
| Cyclohexane | ND | 1300 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 670 | ug/kg |
| 1,2-Dibromoethane | ND | 670 | ug/kg |
| Dibromomethane | ND | 670 | ug/kg |
| 1,2-Dichlorobenzene | ND | 270 | ug/kg |
| 1,3-Dichlorobenzene | ND | 270 | ug/kg |
| 1,4-Dichlorobenzene | ND | 270 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 170 | ug/kg |
| Dichlorodifluoromethane | ND | 270 | ug/kg |
| 1,1-Dichloroethane | ND | 130 | ug/kg |
| 1,2-Dichloroethane | ND | 130 | ug/kg |
| cis-1,2-Dichloroethene | ND | 130 | ug/kg |
| trans-1,2-Dichloroethene | ND | 130 | ug/kg |
| 1,1-Dichloroethene | ND | 130 | ug/kg |
| 1,2-Dichloropropane | ND | 130 | ug/kg |
| cis-1,3-Dichloropropene | ND | 130 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA1AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 130 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 670 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 670 | ug/kg |
| Ethylbenzene | ND | 130 | ug/kg |
| Ethyl ether | ND | 540 | ug/kg |
| 2-Hexanone | ND | 6700 | ug/kg |
| Iodomethane | ND | 270 | ug/kg |
| Isopropylbenzene | ND | 670 | ug/kg |
| Isopropyl ether | ND | 670 | ug/kg |
| p-Isopropyltoluene | ND | 270 | ug/kg |
| Methylene chloride | ND | 670 | ug/kg |
| 2-Methylnaphthalene | ND | 890 | ug/kg |
| 4-Methyl-2-pentanone | ND | 6700 | ug/kg |
| Methyl tert-butyl ether | ND | 670 | ug/kg |
| Naphthalene | ND | 670 | ug/kg |
| n-Propylbenzene | ND | 270 | ug/kg |
| Styrene | ND | 130 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 270 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 130 | ug/kg |
| Tetrachloroethene | ND | 130 | ug/kg |
| Tetrahydrofuran | ND | 2700 | ug/kg |
| Toluene | ND | 270 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 670 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 670 | ug/kg |
| 1,1,1-Trichloroethane | ND | 130 | ug/kg |
| 1,1,2-Trichloroethane | ND | 130 | ug/kg |
| Trichloroethene | ND | 130 | ug/kg |
| Trichlorofluoromethane | ND | 270 | ug/kg |
| 1,2,3-Trichloropropane | ND | 270 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 670 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 270 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 270 | ug/kg |
| Vinyl chloride | ND | 110 | ug/kg |
| m-Xylene & p-Xylene | ND | 270 | ug/kg |
| o-Xylene | ND | 130 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 73 DIL | (59 - 138) |
| 1,2-Dichloroethane-d4 | 95 DIL | (61 - 130) |
| Toluene-d8 | 72 DIL | (60 - 143) |
| 4-Bromofluorobenzene | 71 DIL | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA1AW **Matrix.....:** SO

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Elevated reporting limits due to matrix interference.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA1AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 10
**% Moisture.....:** 18 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acenaphthene** | **730 J** | **3200** | **ug/kg** |
| **Acenaphthylene** | **280 J** | **3200** | **ug/kg** |
| Acetophenone | ND | 3200 | ug/kg |
| **Anthracene** | **1900 J** | **3200** | **ug/kg** |
| Atrazine | ND | 3200 | ug/kg |
| **Benzo(a)anthracene** | **5700** | **3200** | **ug/kg** |
| **Benzo(a)pyrene** | **5100** | **3200** | **ug/kg** |
| **Benzo(b)fluoranthene** | **6800** | **3200** | **ug/kg** |
| **Benzo(ghi)perylene** | **3700** | **3200** | **ug/kg** |
| **Benzo(k)fluoranthene** | **2100 J** | **3200** | **ug/kg** |
| Benzaldehyde | ND | 3200 | ug/kg |
| 1,1'-Biphenyl | ND | 3200 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 3200 | ug/kg |
| bis(2-Chloroethyl)- ether | ND | 3200 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 3200 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 3200 | ug/kg |
| Butyl benzyl phthalate | ND | 3200 | ug/kg |
| Caprolactam | ND | 3200 | ug/kg |
| **Carbazole** | **780 J** | **3200** | **ug/kg** |
| 4-Chloroaniline | ND | 17000 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 3200 | ug/kg |
| 2-Chloronaphthalene | ND | 3200 | ug/kg |
| 2-Chlorophenol | ND | 3200 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 3200 | ug/kg |
| **Chrysene** | **5700** | **3200** | **ug/kg** |
| **Dibenz(a,h)anthracene** | **950 J** | **3200** | **ug/kg** |
| **Dibenzofuran** | **430 J** | **3200** | **ug/kg** |
| 3,3'-Dichlorobenzidine | ND | 20000 | ug/kg |
| 2,4-Dichlorophenol | ND | 3200 | ug/kg |
| Diethyl phthalate | ND | 3200 | ug/kg |
| 2,4-Dimethylphenol | ND | 3200 | ug/kg |
| Dimethyl phthalate | ND | 3200 | ug/kg |
| Di-n-butyl phthalate | ND | 3200 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA1AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 17000 | ug/kg |
| 2,4-Dinitrophenol | ND | 17000 | ug/kg |
| 2,4-Dinitrotoluene | ND | 3200 | ug/kg |
| 2,6-Dinitrotoluene | ND | 3200 | ug/kg |
| Di-n-octyl phthalate | ND | 3200 | ug/kg |
| **Fluoranthene** | **14000** | **3200** | **ug/kg** |
| **Fluorene** | **700 J** | **3200** | **ug/kg** |
| Hexachlorobenzene | ND | 3200 | ug/kg |
| Hexachlorobutadiene | ND | 3200 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 3200 | ug/kg |
| Hexachloroethane | ND | 3200 | ug/kg |
| **Indeno(1,2,3-cd)pyrene** | **3000 J** | **3200** | **ug/kg** |
| Isophorone | ND | 3200 | ug/kg |
| **2-Methylnaphthalene** | **540 J** | **3200** | **ug/kg** |
| 2-Methylphenol | ND | 3200 | ug/kg |
| 4-Methylphenol | ND | 3200 | ug/kg |
| **Naphthalene** | **450 J** | **3200** | **ug/kg** |
| 2-Nitroaniline | ND | 17000 | ug/kg |
| 3-Nitroaniline | ND | 17000 | ug/kg |
| 4-Nitroaniline | ND | 17000 | ug/kg |
| Nitrobenzene | ND | 3200 | ug/kg |
| 2-Nitrophenol | ND | 3200 | ug/kg |
| 4-Nitrophenol | ND | 17000 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 3200 | ug/kg |
| N-Nitrosodiphenylamine | ND | 3200 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 3200 | ug/kg |
| Pentachlorophenol | ND | 7800 | ug/kg |
| **Phenanthrene** | **8000** | **3200** | **ug/kg** |
| Phenol | ND | 3200 | ug/kg |
| **Pyrene** | **11000** | **3200** | **ug/kg** |
| 2,4,5-Trichloro-phenol | ND | 3200 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 3200 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA1AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 55 DIL | (24 - 112) |
| 2-Fluorobiphenyl | 56 DIL | (34 - 110) |
| Terphenyl-d14 | 76 DIL | (41 - 119) |
| Phenol-d5 | 57 DIL | (28 - 110) |
| 2-Fluorophenol | 47 DIL | (26 - 110) |
| 2,4,6-Tribromophenol | 57 DIL | (10 - 118) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**GC Volatiles**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA1AV **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1
**% Moisture.....:** 18 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Gasoline)** | **4600 J** | **6100** | **ug/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 38 | (10 - 150) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA1AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 10
**% Moisture.....:** 18 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **470** | **120** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 28 DIL | (10 - 110) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA1AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:00 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 18 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 320 | ug/kg |
| Aroclor 1221 | ND | 320 | ug/kg |
| Aroclor 1232 | ND | 320 | ug/kg |
| Aroclor 1242 | ND | 320 | ug/kg |
| Aroclor 1248 | ND | 320 | ug/kg |
| Aroclor 1254 | ND | 320 | ug/kg |
| Aroclor 1260 | ND | 320 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 73 | (10 - 196) |
| Decachlorobiphenyl | 85 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-010 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:00 **Date Received..:** 10/03/08
**% Moisture.....:** 18

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| **Antimony** | **2.1** | **0.61** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AD** |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **24.1** | **0.49** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AE** |
| | | Dilution Factor: 1 | | | | |
| **Beryllium** | **0.86** | **0.20** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AF** |
| | | Dilution Factor: 1 | | | | |
| **Cadmium** | **0.98** | **0.098** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AG** |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **11.3** | **0.49** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **143** | **0.98** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **771** | **0.29** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **13.7** | **0.98** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AL** |
| | | Dilution Factor: 1 | | | | |
| **Selenium** | **0.94** | **0.49** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AM** |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 0.49 | mg/kg | SW846 6010B | 10/06/08 | KX4QA1AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 0.98 | mg/kg | SW846 6010B | 10/06/08 | KX4QA1AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **701** | **2.0** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QA1AQ** |
| | | Dilution Factor: 1 | | | | |
| **Mercury** | **0.97** | **0.098** | **mg/kg** | **SW846 7471A** | **10/06/08** | **KX4QA1AR** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA6-1-(2'-4')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-010 **Work Order #...:** KX4QA **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:00 **Date Received..:** 10/03/08
**% Moisture.....:** 18

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **81.7** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-011 **Work Order #...:** KX4QF1AW **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 0.91
**% Moisture.....:** 17 **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **170 J,B** | **660** | **ug/kg** |
| Acrylonitrile | ND | 2200 | ug/kg |
| Benzene | ND | 44 | ug/kg |
| Bromobenzene | ND | 87 | ug/kg |
| Bromochloromethane | ND | 87 | ug/kg |
| Bromodichloromethane | ND | 87 | ug/kg |
| Bromoform | ND | 87 | ug/kg |
| Bromomethane | ND | 170 | ug/kg |
| 2-Butanone | ND | 660 | ug/kg |
| tert-Butyl alcohol | ND | 1100 | ug/kg |
| n-Butylbenzene | ND | 44 | ug/kg |
| sec-Butylbenzene | ND | 44 | ug/kg |
| tert-Butylbenzene | ND | 44 | ug/kg |
| Carbon disulfide | ND | 220 | ug/kg |
| Carbon tetrachloride | ND | 44 | ug/kg |
| Chlorobenzene | ND | 44 | ug/kg |
| Dibromochloromethane | ND | 44 | ug/kg |
| Chloroethane | ND | 220 | ug/kg |
| Chloroform | ND | 44 | ug/kg |
| Chloromethane | ND | 220 | ug/kg |
| Cyclohexane | ND | 440 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 220 | ug/kg |
| 1,2-Dibromoethane | ND | 220 | ug/kg |
| Dibromomethane | ND | 220 | ug/kg |
| 1,2-Dichlorobenzene | ND | 87 | ug/kg |
| 1,3-Dichlorobenzene | ND | 87 | ug/kg |
| 1,4-Dichlorobenzene | ND | 87 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 55 | ug/kg |
| Dichlorodifluoromethane | ND | 87 | ug/kg |
| 1,1-Dichloroethane | ND | 44 | ug/kg |
| 1,2-Dichloroethane | ND | 44 | ug/kg |
| cis-1,2-Dichloroethene | ND | 44 | ug/kg |
| trans-1,2-Dichloroethene | ND | 44 | ug/kg |
| 1,1-Dichloroethene | ND | 44 | ug/kg |
| 1,2-Dichloropropane | ND | 44 | ug/kg |
| cis-1,3-Dichloropropene | ND | 44 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-011 **Work Order #...:** KX4QF1AW **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 44 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 220 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 220 | ug/kg |
| Ethylbenzene | ND | 44 | ug/kg |
| Ethyl ether | ND | 170 | ug/kg |
| 2-Hexanone | ND | 2200 | ug/kg |
| Iodomethane | ND | 87 | ug/kg |
| Isopropylbenzene | ND | 220 | ug/kg |
| Isopropyl ether | ND | 220 | ug/kg |
| p-Isopropyltoluene | ND | 87 | ug/kg |
| Methylene chloride | ND | 220 | ug/kg |
| 2-Methylnaphthalene | ND | 290 | ug/kg |
| 4-Methyl-2-pentanone | ND | 2200 | ug/kg |
| Methyl tert-butyl ether | ND | 220 | ug/kg |
| Naphthalene | ND | 220 | ug/kg |
| n-Propylbenzene | ND | 87 | ug/kg |
| Styrene | ND | 44 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 87 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 44 | ug/kg |
| Tetrachloroethene | ND | 44 | ug/kg |
| Tetrahydrofuran | ND | 870 | ug/kg |
| Toluene | ND | 87 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 220 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 220 | ug/kg |
| 1,1,1-Trichloroethane | ND | 44 | ug/kg |
| 1,1,2-Trichloroethane | ND | 44 | ug/kg |
| Trichloroethene | ND | 44 | ug/kg |
| Trichlorofluoromethane | ND | 87 | ug/kg |
| 1,2,3-Trichloropropane | ND | 87 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 220 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 87 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 87 | ug/kg |
| Vinyl chloride | ND | 35 | ug/kg |
| m-Xylene & p-Xylene | ND | 87 | ug/kg |
| o-Xylene | ND | 44 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 75 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 98 | (61 - 130) |
| Toluene-d8 | 81 | (60 - 143) |
| 4-Bromofluorobenzene | 78 | (47 - 158) |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-011 **Work Order #...:** KX4QF1AW **Matrix.....:** SO

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-011 **Work Order #...:** KX4QF1AC **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 1
**% Moisture.....:** 17 **Method.....:** SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Acenaphthene | ND | 320 | ug/kg |
| Acenaphthylene | ND | 320 | ug/kg |
| Acetophenone | ND | 320 | ug/kg |
| Anthracene | ND | 320 | ug/kg |
| Atrazine | ND | 320 | ug/kg |
| Benzo(a)anthracene | ND | 320 | ug/kg |
| Benzo(a)pyrene | ND | 320 | ug/kg |
| Benzo(b)fluoranthene | ND | 320 | ug/kg |
| Benzo(ghi)perylene | ND | 320 | ug/kg |
| Benzo(k)fluoranthene | ND | 320 | ug/kg |
| Benzaldehyde | ND | 320 | ug/kg |
| 1,1'-Biphenyl | ND | 320 | ug/kg |
| bis(2-Chloroethoxy) methane | ND | 320 | ug/kg |
| bis(2-Chloroethyl)- ether | ND | 320 | ug/kg |
| bis(2-Ethylhexyl) phthalate | ND | 320 | ug/kg |
| 4-Bromophenyl phenyl ether | ND | 320 | ug/kg |
| Butyl benzyl phthalate | ND | 320 | ug/kg |
| Caprolactam | ND | 320 | ug/kg |
| Carbazole | ND | 320 | ug/kg |
| 4-Chloroaniline | ND | 1600 | ug/kg |
| 4-Chloro-3-methylphenol | ND | 320 | ug/kg |
| 2-Chloronaphthalene | ND | 320 | ug/kg |
| 2-Chlorophenol | ND | 320 | ug/kg |
| 4-Chlorophenyl phenyl ether | ND | 320 | ug/kg |
| Chrysene | ND | 320 | ug/kg |
| Dibenz(a,h)anthracene | ND | 320 | ug/kg |
| Dibenzofuran | ND | 320 | ug/kg |
| 3,3'-Dichlorobenzidine | ND | 1900 | ug/kg |
| 2,4-Dichlorophenol | ND | 320 | ug/kg |
| Diethyl phthalate | ND | 320 | ug/kg |
| 2,4-Dimethylphenol | ND | 320 | ug/kg |
| Dimethyl phthalate | ND | 320 | ug/kg |
| Di-n-butyl phthalate | ND | 320 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-011 **Work Order #...:** KX4QF1AC **Matrix.....:** SO

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 1600 | ug/kg |
| 2,4-Dinitrophenol | ND | 1600 | ug/kg |
| 2,4-Dinitrotoluene | ND | 320 | ug/kg |
| 2,6-Dinitrotoluene | ND | 320 | ug/kg |
| Di-n-octyl phthalate | ND | 320 | ug/kg |
| Fluoranthene | ND | 320 | ug/kg |
| Fluorene | ND | 320 | ug/kg |
| Hexachlorobenzene | ND | 320 | ug/kg |
| Hexachlorobutadiene | ND | 320 | ug/kg |
| Hexachlorocyclopenta-diene | ND | 320 | ug/kg |
| Hexachloroethane | ND | 320 | ug/kg |
| Indeno(1,2,3-cd)pyrene | ND | 320 | ug/kg |
| Isophorone | ND | 320 | ug/kg |
| **2-Methylnaphthalene** | **9.0 J** | **320** | **ug/kg** |
| 2-Methylphenol | ND | 320 | ug/kg |
| 4-Methylphenol | ND | 320 | ug/kg |
| Naphthalene | ND | 320 | ug/kg |
| 2-Nitroaniline | ND | 1600 | ug/kg |
| 3-Nitroaniline | ND | 1600 | ug/kg |
| 4-Nitroaniline | ND | 1600 | ug/kg |
| Nitrobenzene | ND | 320 | ug/kg |
| 2-Nitrophenol | ND | 320 | ug/kg |
| 4-Nitrophenol | ND | 1600 | ug/kg |
| N-Nitrosodi-n-propyl-amine | ND | 320 | ug/kg |
| N-Nitrosodiphenylamine | ND | 320 | ug/kg |
| 2,2'-oxybis (1-Chloropropane) | ND | 320 | ug/kg |
| Pentachlorophenol | ND | 770 | ug/kg |
| Phenanthrene | ND | 320 | ug/kg |
| Phenol | ND | 320 | ug/kg |
| Pyrene | ND | 320 | ug/kg |
| 2,4,5-Trichloro-phenol | ND | 320 | ug/kg |
| 2,4,6-Trichloro-phenol | ND | 320 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**GC/MS Semivolatiles**

**Lot-Sample #...:** A8J030135-011 **Work Order #...:** KX4QF1AC **Matrix.....:** SO

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 70 | (24 - 112) |
| 2-Fluorobiphenyl | 66 | (34 - 110) |
| Terphenyl-d14 | 92 | (41 - 119) |
| Phenol-d5 | 70 | (28 - 110) |
| 2-Fluorophenol | 66 | (26 - 110) |
| 2,4,6-Tribromophenol | 66 | (10 - 118) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-011 **Work Order #...:** KX4QF1AU **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 50
**% Moisture.....:** 17 **Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Diesel)** | **1000** | **600** | **mg/kg** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 35 DIL | (10 - 110) |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**GC Semivolatiles**

**Lot-Sample #...:** A8J030135-011 **Work Order #...:** KX4QF1AT **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1
**% Moisture.....:** 17 **Method.....:** SW846 8082

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Aroclor 1016 | ND | 320 | ug/kg |
| Aroclor 1221 | ND | 320 | ug/kg |
| Aroclor 1232 | ND | 320 | ug/kg |
| Aroclor 1242 | ND | 320 | ug/kg |
| Aroclor 1248 | ND | 320 | ug/kg |
| Aroclor 1254 | ND | 320 | ug/kg |
| Aroclor 1260 | ND | 320 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 85 | (10 - 196) |
| Decachlorobiphenyl | 73 | (10 - 199) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**TOTAL Metals**

**Lot-Sample #...:** A8J030135-011 **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:30 **Date Received..:** 10/03/08
**% Moisture.....:** 17

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 8280020 | | | | | | |
| Antimony | ND | 0.60 | mg/kg | SW846 6010B | 10/06/08 | KX4QF1AD |
| | | Dilution Factor: 1 | | | | |
| **Arsenic** | **2.6** | **0.48** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QF1AE** |
| | | Dilution Factor: 1 | | | | |
| Beryllium | ND | 0.19 | mg/kg | SW846 6010B | 10/06/08 | KX4QF1AF |
| | | Dilution Factor: 1 | | | | |
| **Cadmium** | **0.16** | **0.096** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QF1AG** |
| | | Dilution Factor: 1 | | | | |
| **Chromium** | **6.5** | **0.48** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QF1AH** |
| | | Dilution Factor: 1 | | | | |
| **Copper** | **6.3** | **0.96** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QF1AJ** |
| | | Dilution Factor: 1 | | | | |
| **Lead** | **106** | **0.29** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QF1AK** |
| | | Dilution Factor: 1 | | | | |
| **Nickel** | **6.8** | **0.96** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QF1AL** |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 0.48 | mg/kg | SW846 6010B | 10/06/08 | KX4QF1AM |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 0.48 | mg/kg | SW846 6010B | 10/06/08 | KX4QF1AN |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 0.96 | mg/kg | SW846 6010B | 10/06/08 | KX4QF1AP |
| | | Dilution Factor: 1 | | | | |
| **Zinc** | **51.4** | **1.9** | **mg/kg** | **SW846 6010B** | **10/06/08** | **KX4QF1AQ** |
| | | Dilution Factor: 1 | | | | |
| Mercury | ND | 0.096 | mg/kg | SW846 7471A | 10/06/08 | KX4QF1AR |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

**Environmental Quality Mgt., Inc.**

**Client Sample ID: SBA30-1-(2'-4')**

**General Chemistry**

**Lot-Sample #...:** A8J030135-011 **Work Order #...:** KX4QF **Matrix.....:** SO
**Date Sampled...:** 10/01/08 14:30 **Date Received..:** 10/03/08
**% Moisture.....:** 17

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Percent Solids** | **83.2** | **10.0** | **%** | **MCAWW 160.3 MOD** | **10/03-10/06/08** | **8277458** |

Dilution Factor: 1

**Environmental Quality Mgt., Inc.**

**Client Sample ID: TRIP BLANK**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-012 **Work Order #...:** KX4QV1AC **Matrix.....:** SQ
**Date Sampled...:** 10/01/08 **Date Received..:** 10/03/08
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 1
**% Moisture.....:** **Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Acetone** | **130 J,B** | **600** | **ug/kg** |
| Acrylonitrile | ND | 2000 | ug/kg |
| Benzene | ND | 40 | ug/kg |
| Bromobenzene | ND | 80 | ug/kg |
| Bromochloromethane | ND | 80 | ug/kg |
| Bromodichloromethane | ND | 80 | ug/kg |
| Bromoform | ND | 80 | ug/kg |
| Bromomethane | ND | 160 | ug/kg |
| 2-Butanone | ND | 600 | ug/kg |
| tert-Butyl alcohol | ND | 1000 | ug/kg |
| n-Butylbenzene | ND | 40 | ug/kg |
| sec-Butylbenzene | ND | 40 | ug/kg |
| tert-Butylbenzene | ND | 40 | ug/kg |
| Carbon disulfide | ND | 200 | ug/kg |
| Carbon tetrachloride | ND | 40 | ug/kg |
| Chlorobenzene | ND | 40 | ug/kg |
| Dibromochloromethane | ND | 40 | ug/kg |
| Chloroethane | ND | 200 | ug/kg |
| Chloroform | ND | 40 | ug/kg |
| Chloromethane | ND | 200 | ug/kg |
| Cyclohexane | ND | 400 | ug/kg |
| 1,2-Dibromo-3-chloro-propane | ND | 200 | ug/kg |
| 1,2-Dibromoethane | ND | 200 | ug/kg |
| Dibromomethane | ND | 200 | ug/kg |
| 1,2-Dichlorobenzene | ND | 80 | ug/kg |
| 1,3-Dichlorobenzene | ND | 80 | ug/kg |
| 1,4-Dichlorobenzene | ND | 80 | ug/kg |
| trans-1,4-Dichloro-2-butene | ND | 50 | ug/kg |
| Dichlorodifluoromethane | ND | 80 | ug/kg |
| 1,1-Dichloroethane | ND | 40 | ug/kg |
| 1,2-Dichloroethane | ND | 40 | ug/kg |
| cis-1,2-Dichloroethene | ND | 40 | ug/kg |
| trans-1,2-Dichloroethene | ND | 40 | ug/kg |
| 1,1-Dichloroethene | ND | 40 | ug/kg |
| 1,2-Dichloropropane | ND | 40 | ug/kg |
| cis-1,3-Dichloropropene | ND | 40 | ug/kg |

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**Environmental Quality Mgt., Inc.**

**Client Sample ID: TRIP BLANK**

**GC/MS Volatiles**

**Lot-Sample #...:** A8J030135-012 **Work Order #...:** KX4QV1AC **Matrix.....:** SQ

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 40 | ug/kg |
| Tert-amyl methyl ether (TAME) | ND | 200 | ug/kg |
| Ethyl-t-Butyl Ether (ETBE) | ND | 200 | ug/kg |
| Ethylbenzene | ND | 40 | ug/kg |
| Ethyl ether | ND | 160 | ug/kg |
| 2-Hexanone | ND | 2000 | ug/kg |
| Iodomethane | ND | 80 | ug/kg |
| Isopropylbenzene | ND | 200 | ug/kg |
| Isopropyl ether | ND | 200 | ug/kg |
| p-Isopropyltoluene | ND | 80 | ug/kg |
| Methylene chloride | ND | 200 | ug/kg |
| 2-Methylnaphthalene | ND | 260 | ug/kg |
| 4-Methyl-2-pentanone | ND | 2000 | ug/kg |
| Methyl tert-butyl ether | ND | 200 | ug/kg |
| Naphthalene | ND | 200 | ug/kg |
| n-Propylbenzene | ND | 80 | ug/kg |
| Styrene | ND | 40 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 80 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 40 | ug/kg |
| Tetrachloroethene | ND | 40 | ug/kg |
| Tetrahydrofuran | ND | 800 | ug/kg |
| Toluene | ND | 80 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 200 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 200 | ug/kg |
| 1,1,1-Trichloroethane | ND | 40 | ug/kg |
| 1,1,2-Trichloroethane | ND | 40 | ug/kg |
| Trichloroethene | ND | 40 | ug/kg |
| Trichlorofluoromethane | ND | 80 | ug/kg |
| 1,2,3-Trichloropropane | ND | 80 | ug/kg |
| 1,2,3-Trimethylbenzene | ND | 200 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 80 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 80 | ug/kg |
| Vinyl chloride | ND | 32 | ug/kg |
| m-Xylene & p-Xylene | ND | 80 | ug/kg |
| o-Xylene | ND | 40 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 72 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 99 | (61 - 130) |
| Toluene-d8 | 81 | (60 - 143) |
| 4-Bromofluorobenzene | 77 | (47 - 158) |

**NOTE(S):**

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

# *QUALITY CONTROL SECTION*

**METHOD BLANK REPORT**

**GC/MS Volatiles**

**Client Lot #...:** A8J030135 **Work Order #...:** K0CE01AA **Matrix.....:** SOLID
**MB Lot-Sample #:** A8J070000-426
**Prep Date.....:** 10/03/08
**Analysis Date..:** 10/06/08 **Prep Batch #...:** 8281426
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| **Acetone** | **200 J** | **600** | **ug/kg** | **SW846 8260B** |
| Acrylonitrile | ND | 2000 | ug/kg | SW846 8260B |
| Benzene | ND | 40 | ug/kg | SW846 8260B |
| Bromobenzene | ND | 80 | ug/kg | SW846 8260B |
| Bromochloromethane | ND | 80 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 80 | ug/kg | SW846 8260B |
| Bromoform | ND | 80 | ug/kg | SW846 8260B |
| Bromomethane | ND | 160 | ug/kg | SW846 8260B |
| 2-Butanone | ND | 600 | ug/kg | SW846 8260B |
| tert-Butyl alcohol | ND | 1000 | ug/kg | SW846 8260B |
| n-Butylbenzene | ND | 40 | ug/kg | SW846 8260B |
| sec-Butylbenzene | ND | 40 | ug/kg | SW846 8260B |
| tert-Butylbenzene | ND | 40 | ug/kg | SW846 8260B |
| Carbon disulfide | ND | 200 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 40 | ug/kg | SW846 8260B |
| Chlorobenzene | ND | 40 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 40 | ug/kg | SW846 8260B |
| Chloroethane | ND | 200 | ug/kg | SW846 8260B |
| Chloroform | ND | 40 | ug/kg | SW846 8260B |
| Chloromethane | ND | 200 | ug/kg | SW846 8260B |
| Cyclohexane | ND | 400 | ug/kg | SW846 8260B |
| 1,2-Dibromo-3-chloro-propane | ND | 200 | ug/kg | SW846 8260B |
| 1,2-Dibromoethane | ND | 200 | ug/kg | SW846 8260B |
| Dibromomethane | ND | 200 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 80 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 80 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 80 | ug/kg | SW846 8260B |
| trans-1,4-Dichloro-2-butene | ND | 50 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 80 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 40 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 40 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 40 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 40 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 40 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 40 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 40 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 40 | ug/kg | SW846 8260B |
| Tert-amyl methyl ether (T | ND | 200 | ug/kg | SW846 8260B |
| Ethyl-t-Butyl Ether (ETBE | ND | 200 | ug/kg | SW846 8260B |

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## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** A8J030135 **Work Order #...:** K0CE01AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Ethylbenzene | ND | 40 | ug/kg | SW846 8260B |
| Ethyl ether | ND | 160 | ug/kg | SW846 8260B |
| 2-Hexanone | ND | 2000 | ug/kg | SW846 8260B |
| Iodomethane | ND | 80 | ug/kg | SW846 8260B |
| Isopropylbenzene | ND | 200 | ug/kg | SW846 8260B |
| Isopropyl ether | ND | 200 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | ND | 80 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 200 | ug/kg | SW846 8260B |
| 2-Methylnaphthalene | ND | 260 | ug/kg | SW846 8260B |
| 4-Methyl-2-pentanone | ND | 2000 | ug/kg | SW846 8260B |
| Methyl tert-butyl ether | ND | 200 | ug/kg | SW846 8260B |
| Naphthalene | ND | 200 | ug/kg | SW846 8260B |
| n-Propylbenzene | ND | 80 | ug/kg | SW846 8260B |
| Styrene | ND | 40 | ug/kg | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 80 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 40 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 40 | ug/kg | SW846 8260B |
| Tetrahydrofuran | ND | 800 | ug/kg | SW846 8260B |
| Toluene | ND | 80 | ug/kg | SW846 8260B |
| **1,2,3-Trichlorobenzene** | **15 J** | **200** | **ug/kg** | **SW846 8260B** |
| 1,2,4-Trichloro-benzene | ND | 200 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 40 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 40 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 40 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 80 | ug/kg | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 80 | ug/kg | SW846 8260B |
| 1,2,3-Trimethylbenzene | ND | 200 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 80 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 80 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 32 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | ND | 80 | ug/kg | SW846 8260B |
| o-Xylene | ND | 40 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 90 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 106 | (61 - 130) |
| Toluene-d8 | 87 | (60 - 143) |
| 4-Bromofluorobenzene | 86 | (47 - 158) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

**METHOD BLANK REPORT**

**GC/MS Semivolatiles**

**Client Lot #...:** A8J030135 **Work Order #...:** KX5P11AA **Matrix.....:** SOLID
**MB Lot-Sample #:** A8J030000-363
**Prep Date.....:** 10/04/08
**Analysis Date..:** 10/06/08 **Prep Batch #...:** 8277363
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Acenaphthene | ND | 260 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 260 | ug/kg | SW846 8270C |
| Acetophenone | ND | 260 | ug/kg | SW846 8270C |
| Anthracene | ND | 260 | ug/kg | SW846 8270C |
| Atrazine | ND | 260 | ug/kg | SW846 8270C |
| Benzo(a)anthracene | ND | 260 | ug/kg | SW846 8270C |
| Benzo(a)pyrene | ND | 260 | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene | ND | 260 | ug/kg | SW846 8270C |
| Benzo(ghi)perylene | ND | 260 | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene | ND | 260 | ug/kg | SW846 8270C |
| Benzaldehyde | ND | 260 | ug/kg | SW846 8270C |
| 1,1'-Biphenyl | ND | 260 | ug/kg | SW846 8270C |
| bis(2-Chloroethoxy) methane | ND | 260 | ug/kg | SW846 8270C |
| bis(2-Chloroethyl)- ether | ND | 260 | ug/kg | SW846 8270C |
| bis(2-Ethylhexyl) phthalate | ND | 260 | ug/kg | SW846 8270C |
| 4-Bromophenyl phenyl ether | ND | 260 | ug/kg | SW846 8270C |
| Butyl benzyl phthalate | ND | 260 | ug/kg | SW846 8270C |
| Caprolactam | ND | 260 | ug/kg | SW846 8270C |
| Carbazole | ND | 260 | ug/kg | SW846 8270C |
| 4-Chloroaniline | ND | 1400 | ug/kg | SW846 8270C |
| 4-Chloro-3-methylphenol | ND | 260 | ug/kg | SW846 8270C |
| 2-Chloronaphthalene | ND | 260 | ug/kg | SW846 8270C |
| 2-Chlorophenol | ND | 260 | ug/kg | SW846 8270C |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/kg | SW846 8270C |
| Chrysene | ND | 260 | ug/kg | SW846 8270C |
| Dibenz(a,h)anthracene | ND | 260 | ug/kg | SW846 8270C |
| Dibenzofuran | ND | 260 | ug/kg | SW846 8270C |
| 3,3'-Dichlorobenzidine | ND | 1600 | ug/kg | SW846 8270C |
| 2,4-Dichlorophenol | ND | 260 | ug/kg | SW846 8270C |
| Diethyl phthalate | ND | 260 | ug/kg | SW846 8270C |
| 2,4-Dimethylphenol | ND | 260 | ug/kg | SW846 8270C |
| Dimethyl phthalate | ND | 260 | ug/kg | SW846 8270C |
| Di-n-butyl phthalate | ND | 260 | ug/kg | SW846 8270C |
| 4,6-Dinitro- 2-methylphenol | ND | 1400 | ug/kg | SW846 8270C |
| 2,4-Dinitrophenol | ND | 1400 | ug/kg | SW846 8270C |

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**METHOD BLANK REPORT**

**GC/MS Semivolatiles**

**Client Lot #...:** A8J030135 **Work Order #...:** KX5P11AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 2,4-Dinitrotoluene | ND | 260 | ug/kg | SW846 8270C |
| 2,6-Dinitrotoluene | ND | 260 | ug/kg | SW846 8270C |
| Di-n-octyl phthalate | ND | 260 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 260 | ug/kg | SW846 8270C |
| Fluorene | ND | 260 | ug/kg | SW846 8270C |
| Hexachlorobenzene | ND | 260 | ug/kg | SW846 8270C |
| Hexachlorobutadiene | ND | 260 | ug/kg | SW846 8270C |
| Hexachlorocyclopenta-diene | ND | 260 | ug/kg | SW846 8270C |
| Hexachloroethane | ND | 260 | ug/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | ND | 260 | ug/kg | SW846 8270C |
| Isophorone | ND | 260 | ug/kg | SW846 8270C |
| 2-Methylnaphthalene | ND | 260 | ug/kg | SW846 8270C |
| 2-Methylphenol | ND | 260 | ug/kg | SW846 8270C |
| 4-Methylphenol | ND | 260 | ug/kg | SW846 8270C |
| Naphthalene | ND | 260 | ug/kg | SW846 8270C |
| 2-Nitroaniline | ND | 1400 | ug/kg | SW846 8270C |
| 3-Nitroaniline | ND | 1400 | ug/kg | SW846 8270C |
| 4-Nitroaniline | ND | 1400 | ug/kg | SW846 8270C |
| Nitrobenzene | ND | 260 | ug/kg | SW846 8270C |
| 2-Nitrophenol | ND | 260 | ug/kg | SW846 8270C |
| 4-Nitrophenol | ND | 1400 | ug/kg | SW846 8270C |
| N-Nitrosodi-n-propyl-amine | ND | 260 | ug/kg | SW846 8270C |
| N-Nitrosodiphenylamine | ND | 260 | ug/kg | SW846 8270C |
| 2,2'-oxybis (1-Chloropropane) | ND | 260 | ug/kg | SW846 8270C |
| Pentachlorophenol | ND | 640 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 260 | ug/kg | SW846 8270C |
| Phenol | ND | 260 | ug/kg | SW846 8270C |
| Pyrene | ND | 260 | ug/kg | SW846 8270C |
| 2,4,5-Trichloro-phenol | ND | 260 | ug/kg | SW846 8270C |
| 2,4,6-Trichloro-phenol | ND | 260 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 60 | (24 - 112) |
| 2-Fluorobiphenyl | 60 | (34 - 110) |
| Terphenyl-d14 | 80 | (41 - 119) |
| Phenol-d5 | 59 | (28 - 110) |
| 2-Fluorophenol | 56 | (26 - 110) |
| 2,4,6-Tribromophenol | 48 | (10 - 118) |

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**METHOD BLANK REPORT**

**GC/MS Semivolatiles**

**Client Lot #...:** A8J030135 **Work Order #...:** KX5P11AA **Matrix.....:** SOLID

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC Volatiles

**Client Lot #...:** A8J030135 **Work Order #...:** K0A741AA **Matrix.....:** SOLID
**MB Lot-Sample #:** A8J070000-084
**Prep Date.....:** 10/03/08
**Analysis Date..:** 10/07/08 **Prep Batch #...:** 8281084
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| TPH (as Gasoline) | ND | 5000 | ug/kg | SW846 8015B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 67 | (10 - 150) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030135 **Work Order #...:** KX5PA1AA **Matrix.....:** SOLID
**MB Lot-Sample #:** A8J030000-358
**Prep Date.....:** 10/04/08
**Analysis Date..:** 10/07/08 **Prep Batch #...:** 8277358
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| TPH (as Diesel) | ND | 10 | mg/kg | SW846 8015B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 35 | (10 - 110) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030135 **Work Order #...:** KX5P61AA **Matrix.....:** SOLID
**MB Lot-Sample #:** A8J030000-365
**Prep Date.....:** 10/04/08
**Analysis Date..:** 10/07/08 **Prep Batch #...:** 8277365
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Aroclor 1016 | ND | 260 | ug/kg | SW846 8082 |
| Aroclor 1221 | ND | 260 | ug/kg | SW846 8082 |
| Aroclor 1232 | ND | 260 | ug/kg | SW846 8082 |
| Aroclor 1242 | ND | 260 | ug/kg | SW846 8082 |
| Aroclor 1248 | ND | 260 | ug/kg | SW846 8082 |
| Aroclor 1254 | ND | 260 | ug/kg | SW846 8082 |
| Aroclor 1260 | ND | 260 | ug/kg | SW846 8082 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 100 | (10 - 196) |
| Decachlorobiphenyl | 149 | (10 - 199) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

## TOTAL Metals

**Client Lot #...:** A8J030135 **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **MB Lot-Sample #:** A8J060000-020 **Prep Batch #...:** 8280020 | | | | | | |
| Antimony | ND | 0.50 | mg/kg | SW846 6010B | 10/06/08 | KX72E1A6 |
| | | Dilution Factor: 1 | | | | |
| Arsenic | ND | 0.40 | mg/kg | SW846 6010B | 10/06/08 | KX72E1A7 |
| | | Dilution Factor: 1 | | | | |
| Beryllium | ND | 0.16 | mg/kg | SW846 6010B | 10/06/08 | KX72E1A8 |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 0.080 | mg/kg | SW846 6010B | 10/06/08 | KX72E1A9 |
| | | Dilution Factor: 1 | | | | |
| Chromium | ND | 0.40 | mg/kg | SW846 6010B | 10/06/08 | KX72E1CA |
| | | Dilution Factor: 1 | | | | |
| Copper | ND | 0.80 | mg/kg | SW846 6010B | 10/06/08 | KX72E1CC |
| | | Dilution Factor: 1 | | | | |
| Lead | ND | 0.24 | mg/kg | SW846 6010B | 10/06/08 | KX72E1CD |
| | | Dilution Factor: 1 | | | | |
| Nickel | ND | 0.80 | mg/kg | SW846 6010B | 10/06/08 | KX72E1CE |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 0.40 | mg/kg | SW846 6010B | 10/06/08 | KX72E1CF |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 0.40 | mg/kg | SW846 6010B | 10/06/08 | KX72E1CG |
| | | Dilution Factor: 1 | | | | |
| Thallium | ND | 0.80 | mg/kg | SW846 6010B | 10/06/08 | KX72E1CH |
| | | Dilution Factor: 1 | | | | |
| Zinc | ND | 1.6 | mg/kg | SW846 6010B | 10/06/08 | KX72E1CJ |
| | | Dilution Factor: 1 | | | | |
| Mercury | ND | 0.080 | mg/kg | SW846 7471A | 10/06/08 | KX72E1CK |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### General Chemistry

**Client Lot #...:** A8J030135 **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Percent Solids | | Work Order #: KX8A41AA | | MB Lot-Sample #: | A8J030000-458 | |
| | ND | 10.0 | % | MCAWW 160.3 MOD | 10/03-10/06/08 | 8277458 |

Dilution Factor: 1

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** A8J030135 **Work Order #...:** K0CE01AC-LCS **Matrix.....:** SOLID
**LCS Lot-Sample#:** A8J070000-426 K0CE01AD-LCSD
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8281426
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **Benzene** | **91** | **(75 - 129)** | | | **SW846 8260B** |
| | **91** | **(75 - 129)** | **0.090** | **(0-20)** | **SW846 8260B** |
| **Chlorobenzene** | **93** | **(75 - 127)** | | | **SW846 8260B** |
| | **91** | **(75 - 127)** | **2.6** | **(0-22)** | **SW846 8260B** |
| **1,1-Dichloroethene** | **99** | **(55 - 142)** | | | **SW846 8260B** |
| | **98** | **(55 - 142)** | **1.2** | **(0-27)** | **SW846 8260B** |
| **Toluene** | **87** | **(71 - 130)** | | | **SW846 8260B** |
| | **86** | **(71 - 130)** | **0.93** | **(0-24)** | **SW846 8260B** |
| **Trichloroethene** | **97** | **(70 - 131)** | | | **SW846 8260B** |
| | **94** | **(70 - 131)** | **2.6** | **(0-23)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 100 | (59 - 138) |
| | 96 | (59 - 138) |
| 1,2-Dichloroethane-d4 | 113 | (61 - 130) |
| | 110 | (61 - 130) |
| Toluene-d8 | 91 | (60 - 143) |
| | 88 | (60 - 143) |
| 4-Bromofluorobenzene | 90 | (47 - 158) |
| | 89 | (47 - 158) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Semivolatiles

**Client Lot #...:** A8J030135 **Work Order #...:** KX5P11AC **Matrix.....:** SOLID
**LCS Lot-Sample#:** A8J030000-363
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **Acenaphthene** | **47** | **(46 - 110)** | **SW846 8270C** |
| **1,2,4-Trichloro-benzene** | **46** | **(43 - 110)** | **SW846 8270C** |
| **1,4-Dichlorobenzene** | **47** | **(38 - 110)** | **SW846 8270C** |
| **4-Chloro-3-methylphenol** | **47** | **(42 - 110)** | **SW846 8270C** |
| **2-Chlorophenol** | **43** | **(39 - 110)** | **SW846 8270C** |
| **2,4-Dinitrotoluene** | **55** | **(55 - 116)** | **SW846 8270C** |
| **4-Nitrophenol** | **49** | **(24 - 117)** | **SW846 8270C** |
| **N-Nitrosodi-n-propyl-amine** | **47** | **(40 - 114)** | **SW846 8270C** |
| **Pentachlorophenol** | **35** | **(10 - 110)** | **SW846 8270C** |
| **Phenol** | **44** | **(39 - 110)** | **SW846 8270C** |
| **Pyrene** | **58** | **(58 - 113)** | **SW846 8270C** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 72 | (24 - 112) |
| 2-Fluorobiphenyl | 68 | (34 - 110) |
| Terphenyl-d14 | 99 | (41 - 119) |
| Phenol-d5 | 68 | (28 - 110) |
| 2-Fluorophenol | 68 | (26 - 110) |
| 2,4,6-Tribromophenol | 70 | (10 - 118) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Volatiles

**Client Lot #...:** A8J030135 **Work Order #...:** K0A741AC-LCS **Matrix.....:** SOLID
**LCS Lot-Sample#:** A8J070000-084 K0A741AD-LCSD
**Prep Date.....:** 10/03/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8281084
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **TPH (as Gasoline)** | **103** | **(60 - 142)** | | | **SW846 8015B** |
| | **111** | **(60 - 142)** | **7.2** | **(0-27)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Trifluorotoluene | 73 | (10 - 150) |
| | 71 | (10 - 150) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030135 **Work Order #...:** KX5PA1AC **Matrix.....:** SOLID
**LCS Lot-Sample#:** A8J030000-358
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **TPH (as Diesel)** | **133** | **(47 - 138)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 46 | (10 - 110) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030135 **Work Order #...:** KX5P61AC **Matrix.....:** SOLID
**LCS Lot-Sample#:** A8J030000-365
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **Aroclor 1016** | **94** | **(34 - 127)** | **SW846 8082** |
| **Aroclor 1260** | **95** | **(32 - 141)** | **SW846 8082** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 90 | (10 - 196) |
| Decachlorobiphenyl | 97 | (10 - 199) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### TOTAL Metals

**Client Lot #...:** A8J030135 **Matrix.....:** SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|
| **LCS Lot-Sample#:** A8J060000-020 **Prep Batch #...:** 8280020 | | | | | |
| Antimony | 87 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1CQ |
| Arsenic | 90 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1A1 |
| Beryllium | 91 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1CR |
| Cadmium | 92 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1CT |
| Chromium | 93 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1CU |
| Copper | 93 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1CV |
| Lead | 90 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1A2 |
| Nickel | 92 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1CW |
| Selenium | 90 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1A3 |
| Silver | 106 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1CX |
| Thallium | 90 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1A4 |
| Zinc | 95 | (80 - 120) | SW846 6010B<br>Dilution Factor: 1 | 10/06/08 | KX72E1C0 |
| Mercury | 90 | (73 - 121) | SW846 7471A<br>Dilution Factor: 1 | 10/06/08 | KX72E1A5 |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**GC/MS Semivolatiles**

**Client Lot #...:** A8J030135 **Work Order #...:** KX4PT1AX-MS **Matrix.....:** SO
**MS Lot-Sample #:** A8J030135-002 KX4PT1A0-MSD
**Date Sampled...:** 10/01/08 09:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/06/08
**Prep Batch #...:** 8277363
**Dilution Factor:** 10

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **Acenaphthene** | **6.7 DIL,a** | **(10 - 200)** | | | **SW846 8270C** |
| | **2.2 DIL,a** | **(10 - 200)** | **4.0** | **(0-30)** | **SW846 8270C** |
| **1,2,4-Trichloro-** benzene | **44 DIL** | **(33 - 110)** | | | **SW846 8270C** |
| | **34 DIL** | **(33 - 110)** | **24** | **(0-30)** | **SW846 8270C** |
| **1,4-Dichlorobenzene** | **38 DIL** | **(26 - 110)** | | | **SW846 8270C** |
| | **33 DIL** | **(26 - 110)** | **16** | **(0-30)** | **SW846 8270C** |
| **4-Chloro-3-methylphenol** | **44 DIL** | **(32 - 117)** | | | **SW846 8270C** |
| | **44 DIL** | **(32 - 117)** | **1.2** | **(0-30)** | **SW846 8270C** |
| **2-Chlorophenol** | **44 DIL** | **(32 - 110)** | | | **SW846 8270C** |
| | **42 DIL** | **(32 - 110)** | **4.7** | **(0-30)** | **SW846 8270C** |
| **2,4-Dinitrotoluene** | **77 DIL** | **(42 - 118)** | | | **SW846 8270C** |
| | **76 DIL** | **(42 - 118)** | **0.69** | **(0-30)** | **SW846 8270C** |
| **4-Nitrophenol** | **30 DIL** | **(10 - 125)** | | | **SW846 8270C** |
| | **34 DIL** | **(10 - 125)** | **12** | **(0-30)** | **SW846 8270C** |
| **N-Nitrosodi-n-propyl-** amine | **45 DIL** | **(30 - 121)** | | | **SW846 8270C** |
| | **46 DIL** | **(30 - 121)** | **2.1** | **(0-30)** | **SW846 8270C** |
| **Pentachlorophenol** | **104 DIL** | **(10 - 182)** | | | **SW846 8270C** |
| | **103 DIL** | **(10 - 182)** | **1.1** | **(0-30)** | **SW846 8270C** |
| **Phenol** | **45 DIL** | **(10 - 144)** | | | **SW846 8270C** |
| | **43 DIL** | **(10 - 144)** | **5.1** | **(0-30)** | **SW846 8270C** |
| **Pyrene** | **0.0 DIL,a** | **(10 - 200)** | | | **SW846 8270C** |
| | **0.0 DIL,a** | **(10 - 200)** | **0.0** | **(0-30)** | **SW846 8270C** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Nitrobenzene-d5 | 55 DIL | (24 - 112) |
| | 58 DIL | (24 - 112) |
| 2-Fluorobiphenyl | 62 DIL | (34 - 110) |
| | 60 DIL | (34 - 110) |
| Terphenyl-d14 | 81 DIL | (41 - 119) |
| | 78 DIL | (41 - 119) |
| Phenol-d5 | 54 DIL | (28 - 110) |
| | 61 DIL | (28 - 110) |
| 2-Fluorophenol | 48 DIL | (26 - 110) |
| | 43 DIL | (26 - 110) |

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## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Semivolatiles

**Client Lot #...:** A8J030135 **Work Order #...:** KX4PT1AX-MS **Matrix.....:** SO
**MS Lot-Sample #:** A8J030135-002 KX4PT1A0-MSD

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| 2,4,6-Tribromophenol | 49 DIL | (10 - 118) |
| | 59 DIL | (10 - 118) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030135 **Work Order #...:** KX4L51AE-MS **Matrix.....:** SOLID
**MS Lot-Sample #:** A8J030122-001 KX4L51AF-MSD
**Date Sampled...:** 10/02/08 11:30 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277358
**Dilution Factor:** 1 **% Moisture.....:** 13

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **TPH (as Diesel)** | **73** | **(10 - 199)** | | | **SW846 8015B** |
| | **71** | **(10 - 199)** | **1.9** | **(0-30)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| C9 (nonane) | 27 | (10 - 110) |
| | 31 | (10 - 110) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC Semivolatiles

**Client Lot #...:** A8J030135 **Work Order #...:** KX4PV1AX-MS **Matrix.....:** SO
**MS Lot-Sample #:** A8J030135-003 KX4PV1A0-MSD
**Date Sampled...:** 10/01/08 10:10 **Date Received..:** 10/03/08
**Prep Date.....:** 10/04/08 **Analysis Date..:** 10/07/08
**Prep Batch #...:** 8277365
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **Aroclor 1016** | **69** | **(10 - 199)** | | | **SW846 8082** |
| | **77** | **(10 - 199)** | **10** | **(0-30)** | **SW846 8082** |
| **Aroclor 1260** | **66** | **(10 - 199)** | | | **SW846 8082** |
| | **77** | **(10 - 199)** | **15** | **(0-30)** | **SW846 8082** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Tetrachloro-m-xylene | 70 | (10 - 196) |
| | 79 | (10 - 196) |
| Decachlorobiphenyl | 63 | (10 - 199) |
| | 77 | (10 - 199) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Client Lot #...:** A8J030135 **Matrix.....:** SOLID
**Date Sampled...:** 10/02/08 12:15 **Date Received..:** 10/03/08

**MS Lot-Sample #:** A8J030151-001 **Prep Batch #...:** 8280020
**% Moisture.....:** 18

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|---|
| Antimony | 35 N | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11CW |
| | 40 N | (75 - 125) | 14 | (0-20) | SW846 6010B | 10/06/08 | KX4W11CX |
| | | Dilution Factor: 1 | | | | | |
| Arsenic | 80 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11C1 |
| | 77 | (75 - 125) | 2.8 | (0-20) | SW846 6010B | 10/06/08 | KX4W11C2 |
| | | Dilution Factor: 1 | | | | | |
| Beryllium | 81 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11C4 |
| | 79 | (75 - 125) | 1.6 | (0-20) | SW846 6010B | 10/06/08 | KX4W11C5 |
| | | Dilution Factor: 1 | | | | | |
| Cadmium | 82 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11C7 |
| | 79 | (75 - 125) | 3.5 | (0-20) | SW846 6010B | 10/06/08 | KX4W11C8 |
| | | Dilution Factor: 1 | | | | | |
| Chromium | 92 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11DA |
| | 89 | (75 - 125) | 1.9 | (0-20) | SW846 6010B | 10/06/08 | KX4W11DC |
| | | Dilution Factor: 1 | | | | | |
| Copper | 89 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11DE |
| | 77 | (75 - 125) | 8.5 | (0-20) | SW846 6010B | 10/06/08 | KX4W11DF |
| | | Dilution Factor: 1 | | | | | |
| Lead | 81 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11DH |
| | 73 N | (75 - 125) | 8.1 | (0-20) | SW846 6010B | 10/06/08 | KX4W11DJ |
| | | Dilution Factor: 1 | | | | | |
| Nickel | 85 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11DL |
| | 70 N | (75 - 125) | 12 | (0-20) | SW846 6010B | 10/06/08 | KX4W11DM |
| | | Dilution Factor: 1 | | | | | |
| Selenium | 80 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11DP |
| | 78 | (75 - 125) | 2.1 | (0-20) | SW846 6010B | 10/06/08 | KX4W11DQ |
| | | Dilution Factor: 1 | | | | | |
| Silver | 96 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11DT |
| | 94 | (75 - 125) | 2.3 | (0-20) | SW846 6010B | 10/06/08 | KX4W11DU |
| | | Dilution Factor: 1 | | | | | |

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## MATRIX SPIKE SAMPLE EVALUATION REPORT

### TOTAL Metals

**Client Lot #...:** A8J030135 **Matrix.....:** SOLID
**Date Sampled...:** 10/02/08 12:15 **Date Received..:** 10/03/08

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|---|
| Thallium | 80 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11DW |
| | 78 | (75 - 125) | 1.8 | (0-20) | SW846 6010B | 10/06/08 | KX4W11DX |
| | | Dilution Factor: 1 | | | | | |
| Zinc | 89 | (75 - 125) | | | SW846 6010B | 10/06/08 | KX4W11D1 |
| | 82 | (75 - 125) | 4.0 | (0-20) | SW846 6010B | 10/06/08 | KX4W11D2 |
| | | Dilution Factor: 1 | | | | | |
| Mercury | 94 | (11 - 192) | | | SW846 7471A | 10/06/08 | KX4W11D4 |
| | 99 | (11 - 192) | 4.2 | (0-20) | SW846 7471A | 10/06/08 | KX4W11D5 |
| | | Dilution Factor: 1 | | | | | |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

## SAMPLE DUPLICATE EVALUATION REPORT

### General Chemistry

**Client Lot #...:** A8J030135 **Work Order #...:** KX1QP-SMP KX1QP-DUP **Matrix.....:** SOLID
**Date Sampled...:** 09/23/08 09:00 **Date Received..:** 09/24/08
**% Moisture.....:** 20

| PARAM | RESULT | DUPLICATE RESULT | UNITS | RPD | RPD LIMIT | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|---|---|
| Percent Solids | | | | | | SD Lot-Sample #: | A8J020102-001 | |
| | 80.5 | 79.9 | % | 0.72 | (0-20) | MCAWW 160.3 MOD | 10/03-10/06/08 | 8277458 |

Dilution Factor: 1

## SAMPLE DUPLICATE EVALUATION REPORT

### General Chemistry

**Client Lot #...:** A8J030135 **Work Order #...:** KX4M7-SMP KX4M7-DUP **Matrix.....:** SOLID
**Date Sampled...:** 10/02/08 13:45 **Date Received..:** 10/03/08
**% Moisture.....:** 26

| PARAM | RESULT | DUPLICATE RESULT | UNITS | RPD | RPD LIMIT | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|---|---|
| Percent Solids | | | | | | SD Lot-Sample #: | A8J030127-004 | |
| | 74.2 | 74.5 | % | 0.37 | (0-20) | MCAWW 160.3 MOD | 10/03-10/06/08 | 8277458 |

Dilution Factor: 1

# Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

165

| | | | |
|---|---|---|---|
| Client: EQM | Project Manager: A-Rosti | Date: 10-1-08 | Chain of Custody Number: 104088 |
| Address: 1800 Curillon Blvd | Telephone Number (Area Code)/Fax Number: 513-659-5743 | Lab Number | Page 1 of 1 |
| City: Cincinnati; State: OH; Zip Code: 45240 | Site Contact: A Rosti | Lab Contact: M. Loeb | |
| Project Name and Location (State): Chemserve / Detroit. MI | Carrier/Waybill Number | | |
| Contract/Purchase Order/Quote No. | | | |

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | Mod | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Mod | VOCs | GRO | SVOCs | PCBs | DRO | Metals | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TMW1-(4'-6') | 10-1-08 | 0845 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| TMW2-(3'-5') | 10-1-08 | 0930 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| TMW3-(5'-7') | 10-1-08 | 1010 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| SBA8-1-(4'-5') | 10-1-08 | 1050 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| SBA12-1-(2'-4') | | 1120 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| SBCY3-1-(5'-7') | | 1140 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| SBCY2-1-(3'-5') | | 1200 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| SBCY4-1-(2'-4') | | 1315 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| SBCY1-1-(4'-6') | | 1340 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| SBA6-1-(2'-4') | | 1400 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| SBA30-1-(2'-4') | | 1430 | | | | X | | 1 | | | | | | 2 | X | X | X | X | X | X | |
| TRIP BLANK | | | | | | | X | | | | | | | 1 | X | | | | | | |

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify): per P.O.

| | | | | | |
|---|---|---|---|---|---|
| 1. Relinquished By | Date: 10/2/08 | Time: 1600 | 1. Received By | Date: 10/2/08 | Time: 1600 |
| 2. Relinquished By | Date: 10/2/08 | Time: 1800 | 2. Received By | Date: 10-3-08 | Time: 0940 |
| 3. Relinquished By | Date | Time | 3. Received By | Date | Time |

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

North Canton

**TestAmerica Cooler Receipt Form/Narrative**
**North Canton Facility**

**Lot Number:** A8J030135

Client EQM Project _____ By: [signature] (Signature)
Cooler Received on 10-3-08 Opened on 10-3-08
FedEx ☑ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # _____ Multiple Coolers ☑ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☑ No ☐ Intact? Yes ☑ No ☐ NA ☐
   If YES, Quantity 10 Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☑ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☑
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps ☑
   METHOD: IR ☑ Other ☐ _____
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☑
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☑
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☑ No ☐ Were VOAs on the COC? Yes ☐ No ☑

Contacted PM KJB Date 10-3-08 by AMW via Verbal ☒ Voice Mail ☐ Other ☐
Concerning #1

**14. CHAIN OF CUSTODY**

The following discrepancies occurred:

Only rec'd 1x40 Meoh for SBA 30-1-(2:4') @ 1430 COC = 2

log For 8260/Gro - Lab to share vial

**15. SAMPLE CONDITION**

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

**16. SAMPLE PRESERVATION**

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 031808-$HNO_3$; Sulfuric Acid Lot# 031808-$H_2SO_4$; Sodium Hydroxide Lot# 073007 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 050205-$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)? _____

| Client ID | pH | Date | Initials |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## TestAmerica Cooler Receipt Form/Narrative
## North Canton Facility

| Client ID | pH | Date | Initials |
|---|---|---|---|
| | | | |

| Cooler # | Temp. °C | Method | Coolant |
|---|---|---|---|
| 241-860 | 2-8 | IR | Ice |
| 644 | 1-3 | | |
| 114 | 0-8 | | |
| 295 | 2-4 | | |
| 464 | 0-5 | | |

Discrepancies Cont'd:

# APPENDIX D

# SOIL BORING, WELL DEVELOPMENT,

# AND GROUNDWATER SAMPLING LOGS

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: TMW1-(4'-6') |
|---|---|---|

**Site:** USEPA Chemserve
**Location:** Detroit, MI
**EQ Project No.:** 030228.0103

**Site Sketch/Diagram:**

**Drilling Contractor:** Terraprobe
**Driller:** Pat Hogan
**Date(s) Drilled:** 10/1/2008
**Drilling Method:** Geoprobe
**Borehole Diameter (in.):** 2.25
**Borehole Depth (ft.):** 12'
**Logged by:** AR
**Air Monitoring Instrument:** OHO2954
**Surface Elevation:** –
**Depth to Water (ft.):** 6'
**Well Installed (Y/N):** Yes prepack

**Comments:** TMW1-(4'-6') @ 0845

Background = ppm

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | | Dark Black sand - 75% Dry | | |
| | | 50 | Grey clay - 25% Dry | | |
| 4 | | | Grey Clay - 50% - wet | | |
| | | 75 | | ▽ | |
| 8 | | | Grey clay - wet | | |
| | | 100 | | | |
| 12 | | | | | |
| | | | Place temp well with screen @ 5'-10' prepack well | | |

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: TMW2 |
|---|---|---|

Site: USEPA Chemserve
Location: Detroit, MI
EQ Project No.: 030228.0103

Site Sketch/Diagram:

Drilling Contractor: Terraprobe
Driller: Pat Hogan
Date(s) Drilled: 10/1/2008
Drilling Method: Geoprobe
Borehole Diameter (in.): 2.25
Borehole Depth (ft.): 12'
Logged by: AR
Air Monitoring Instrument: OHO2954
Surface Elevation:
Depth to Water (ft.): 5'
Well Installed (Y/N): Yes - prepack

Comments: TMW2-(3'-5') @ 0930

Background = ppm

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | | Dark black ~~soil~~ loam - 50% Dry | | |
| | | 50 | Brown sand - 50% Dry | | |
| 4 | | | Brown sand - 20% | ▽ | |
| | | 75 | water @ 5' | | |
| | | | Brown sand - 60% | | |
| 8 | | | Grey clay | | |
| | | 100 | | | |
| 12 | | | | | |

Place temp well
Screen @ 5'-10'
prepack well

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: TMW3 |
|---|---|---|

**Site:** USEPA Chemserve
**Location:** Detroit, MI
**EQ Project No.:** 030228.0103

**Site Sketch/Diagram:**

**Drilling Contractor:** Terraprobe
**Driller:** Pat Hogan
**Date(s) Drilled:** 10/1/2008
**Drilling Method:** Geoprobe
**Borehole Diameter (in.):** 2.25
**Borehole Depth (ft.):** 12'
**Logged by:** AR
**Air Monitoring Instrument:** OHO2954
**Surface Elevation:**
**Depth to Water (ft.):** 7'
**Well Installed (Y/N):** Y - pre pack

**Comments:** TMW3 - (5'-7') @ 1010

Background = ppm

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | | Black loam - 20% - Dry | | |
| | | 50 | White clay - 20% - Dry | | |
| | | | Mix orange, black, white, gray | | |
| 4 | | | Solids - 60% Dry | | |
| | | | Grey clay - 10% dry | | |
| | | 50 | Black clay - 90% wet | | |
| | | | Water @ 8' | | |
| 8 | | | Grey clay | | |
| | | 100 | | | |
| 12 | | | | | |

Install temp well with Screen @ 8'-13' pre pack well.

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: SBA8-1 |
|---|---|---|

**Site:** USEPA Chemserve
**Location:** Detroit, MI
**EQ Project No.:** 030228.0103

**Site Sketch/Diagram:**

**Drilling Contractor:** Terraprobe
**Driller:** Pat Hogan
**Date(s) Drilled:** 10/1/2008
**Drilling Method:** Geoprobe
**Borehole Diameter (in.):** 2.25
**Borehole Depth (ft.):**
**Logged by:** AR
**Air Monitoring Instrument:** OHO2954
**Surface Elevation:**
**Depth to Water (ft.):**
**Well Installed (Y/N):**

**Comments:** SBA8-1-(4'-5') @ 1050

Background = ppm

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | 40 | Grey, orange, brown concrete, clay and gravel - 50% - Dry | | |
| | | | Grey clay ~~-20%~~ 50% -Dry | | |
| 4 | | 70 | Grey clay -20% -wet | ⊠ | |
| | | | Brown sand- 80% -wet | | |
| 8 | | 90 | Grey clay -10% | ▽ | |
| | | | water @ 9' | | |
| | | | Grey clay | | |
| 12 | | | | | |

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: SBCY3-1 |
|---|---|---|

**Site:** USEPA Chemserve
**Location:** Detroit, MI
**EQ Project No.:** 030228.0103

**Site Sketch/Diagram:**

**Drilling Contractor:** Terraprobe
**Driller:** Pat Hogan
**Date(s) Drilled:** 10/1/2008
**Drilling Method:** Geoprobe
**Borehole Diameter (in.):** 2.25
**Borehole Depth (ft.):** 12'
**Logged by:** AR
**Air Monitoring Instrument:** OHO2954
**Surface Elevation:**
**Depth to Water (ft.):** 9'
**Well Installed (Y/N):** N

**Comments:** SBCY 3-1-(5'-7') @ 1140

Background = ppm

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | 40 | Gry gravel Dry - 30%<br>Black clay dry - 40%<br>Black gravel Dry - 30% | | |
| 4 | | 70 | Brown gravel dry - 40%<br>Gry clay 60%<br>water @ 8' | ▽ | |
| 8 | | 100 | Gry clay | | |
| 12 | | | | | |

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: SBCY2-1 |
|---|---|---|

**Site:** USEPA Chemserve
**Location:** Detroit, MI
**EQ Project No.:** 030228.0103

**Site Sketch/Diagram:**

**Drilling Contractor:** Terraprobe
**Driller:** Pat Hogan
**Date(s) Drilled:** 10/1/2008
**Drilling Method:** Geoprobe
**Borehole Diameter (in.):** 2.25
**Borehole Depth (ft.):** 12'
**Logged by:** AR
**Air Monitoring Instrument:** OHO2954
**Surface Elevation:**
**Depth to Water (ft.):** 9'
**Well Installed (Y/N):** N

**Comments:** SBCY2-1- (3'-5') @ 1200

Background = ppm

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | | Grey dry gravel -20% | | |
| | | 50 | Black clay -50% | | |
| | | | Brown clay/sand- 30% | | |
| 4 | | | grey clay dry -10% | | |
| | | 70 | Black clay wet -70% | | |
| | | | Grey clay wet - 20% | | |
| 8 | | | water @ 9' | ▽ | |
| | | 100 | Grey clay | | |
| 12 | | | | | |

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: SBCY 4-1 |
|---|---|---|

Site: Chem Serve
Location: Detroit, MI
EQ Project No.: 030228.0103

Drilling Contractor: Terra probe
Driller: Pat Hogan
Date(s) Drilled: 10/1/08
Drilling Method: Geoprobe
Borehole Diameter (in.): 2.25
Borehole Depth (ft.): 12'
Logged by: AR
Air Monitoring Instrument: OH02954
Surface Elevation:
Depth to Water (ft.): 6'
Well Installed (Y/N): N

Site Sketch/Diagram:

Comments: SBCY 4-1-(2'-4') @ 1315

Background = ppm

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | 70 | Grey Gravel - 25%<br>Black Gravel/clay 35%<br>Brown Sand - 40%<br>} Dry | | |
| 4 | | | Brown Sand - 25% - wet<br>water @ 6' | ▽ | |
| 8 | | | Grey Clay wet<br>} | | |
| 12 | | | | | |

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: SBA12-1 |
|---|---|---|

Site: USEPA Chemserve
Location: Detroit, MI
EQ Project No.: 030228.0103

Site Sketch/Diagram:

Drilling Contractor: Terraprobe
Driller: Pat Hogan
Date(s) Drilled: 10/1/2008
Drilling Method: Geoprobe
Borehole Diameter (in.): 2.25
Borehole Depth (ft.): 12
Logged by: AR
Air Monitoring Instrument: OHO2954
Surface Elevation:
Depth to Water (ft.): 7'
Well Installed (Y/N): N

Comments: SBA12-1-(2'-4') @1120

Background = ppm

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | 40 | Grey concrete/gravel - 33%<br>Black gravel - 33%<br>Brown sand - 33%<br>} Dry | | 0 |
| 4 | | 80 | Brown sand - 100%<br>water @ 7' | ▽ | |
| 8 | | 100 | Grey clay - dry<br>S | | |
| 12 | | | | | |

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: SBCY1-1 |
|---|---|---|

**Site:** USEPA Chemserve
**Location:** Detroit, MI
**EQ Project No.:** 030228.0103

**Site Sketch/Diagram:**

**Drilling Contractor:** Terraprobe
**Driller:** Pat Hogan
**Date(s) Drilled:** 10/1/2008
**Drilling Method:** Geoprobe
**Borehole Diameter (in.):** 2.25
**Borehole Depth (ft.):** 12'
**Logged by:** AR
**Air Monitoring Instrument:** OHO2954
**Surface Elevation:**
**Depth to Water (ft.):** 7'
**Well Installed (Y/N):** N

**Comments:** SBCY1-1-(4'-6') @ 1340

Background = ppm

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | | Grey concrete/gravel - 25% - Dry | | 0 |
| | | 40 | Black gravel - 50% - Dry | | |
| | | | Brown sand - 25% - Dry | | |
| 4 | | | Brown sand - 100% - wet | | |
| | | 60 | Water @ 7' | | |
| 8 | | | | ▽ | |
| | | | Grey clay - 100 - | | |
| | | 100 | | | |
| 12 | | | | | |

| EQ Environmental Quality Management, Inc. | BORING LOG | Boring No: SBA6-1 |
|---|---|---|

Site: USEPA Chemserve
Location: Detroit, MI
EQ Project No.: 030228.0103

Site Sketch/Diagram:

Drilling Contractor: Terraprobe
Driller: Pat Hogan
Date(s) Drilled: 10/1/2008
Drilling Method: Geoprobe
Borehole Diameter (in.): 2.25
Borehole Depth (ft.): 12
Logged by: AR
Air Monitoring Instrument: OHO2954
Surface Elevation:
Depth to Water (ft.): 9
Well Installed (Y/N): N

Comments: SBA6-1-(2'-4') @ 1400
Background = ppm Dup SBA30-1-(2'-4') taken

| Depth (ft.) | Sample No. | Recovery % | Lithologic Description | Water @ | Headspace (ppm) |
|---|---|---|---|---|---|
| 0 | | | Grey concrete/gravel - 20% | | 0 |
| | | 50 | Black gravel - 60% } Dry | | |
| | | | Dark brown sand - 20% | | |
| 4 | | | Dark brown sand - 30% | | |
| | | 70 | brown sand - 60% | | |
| | | | Brown sand wet - 10% | | |
| 8 | | | Water @ 8' | ▽ | |
| | | 100 | Brown sand wet | | |
| 12 | | | | | |

ENVIRONMENTAL QUALITY MANAGEMENT, INC.
1800 CARILLON BLVD.
CINCINNATI, OHIO 45240
P (513)825-7500
F (513)825-7495

# GROUNDWATER SAMPLING LOG

WELL NO.: TMW1
Dup TMW4

SITE: Chemserve
LOCATION: Detroit MI
EQ PROJECT NO: 3228203

DATE OF SAMPLING: 10-2-08
TIME OF SAMPLING: 1515
WEATHER CONDITIONS: overcast/55

## MONITORING/EVACUATION/PURGE DATA

DEPTH TO WATER: 7.08

MEASURING POINT ELEVATION: _____
☒ TOP OF WELL CASING
☐ GROUND SURFACE
☐ TOP OF PROTECTIVE CASING

TOTAL DEPTH OF WELL (ft): 12.47
WATER COLUMN IN WELL (ft): 5.39
CASING DIAMETER (in): 1.5

GROUND SURFACE ELEVATION: _____
WATER LEVEL ELEVATION: _____
GALLONS WATER/FOOT IN WELL:
☐ 2"> =.163 gal/ft ☐ 6"> =1.468 gal/ft
☐ 4"> =.651 gal/ft ☐ 8"> =2.610 gal/ft

GALLONS IN WELL: 0.49

INSTRUMENTATION USED FOR MEASUREMENTS: OHO893

1.5 - 0.09
LNAPLs DETECTED: ☒ YES ☐ NO Sheen
DNAPLs DETECTED: ☐ YES ☒ NO

GALLONS EVACUATED/PURGED PRIOR TO SAMPLING: _____
TIME OF PURGING: _____
RECHARGE RATE: ☒ RAPID ☐ MODERATE ☐ SLOW ☐ VERY SLOW
METHOD/PROCEDURE OF EVACUATION/PURGING: _____

## SAMPLING DATA/FIELD PARAMETERS

TURBIDITY: CDY
ODOR: None
FILTERED: ☐ YES ☒ NO
OTHER OBSERVATIONS: _____
SAMPLING METHOD/MATERIAL: Peristaltic pump

| PARAMETER | MEASUREMENT 1 | MEASUREMENT 2 | MEASUREMENT 3 | | |
|---|---|---|---|---|---|
| pH (s.u.) | 7.52 | 7.52 | 7.52 | 7.47 | 7.40 |
| CONDUCTANCE (umhos/cm) | 8.06 | 8.38 | 8.01 | 7.80 | 7.84 |
| TEMPERATURE ☒ °F ☐ °C | 62.5 | 64.1 | 63.4 | 62.7 | 61.9 |
| OTHER (SPECIFY) _____ | | | | | |

| SAMPLING SEQUENCE | PARAMETERS/METHOD REQUESTED | CONTAINER DESCRIPTION FROM: ☒ LAB ☐ EQ | PRESERVATIVE |
|---|---|---|---|
| 1 | VOC | 3-40mL | HCl |
| 2 | GRO | 2-40mL | HCl |
| 3 | SVOC | 2-1L Amber | 4°C |
| 4 | PCB | " | " |
| 5 | DRO | " | " |
| 6 | Metal | 1-1L Poly | HNO3 |
| | | | |
| | | | |

SAMPLING TEAM MEMBERS: Roski
LABORATORY NAME, LOCATION, AND PHONE NUMBER: Test America
COURIER, TRACKING NUMBER, AND DATE OF SHIPMENT: _____

ENVIRONMENTAL QUALITY MANAGEMENT, INC.
1800 CARILLON BLVD.
CINCINNATI, OHIO 45240
P (513)825-7500
F (513)825-7495

# GROUNDWATER SAMPLING LOG

WELL NO.: IMW2

SITE: Chemsenry
LOCATION: Detroit, MI
EQ PROJECT NO: 3228.603

DATE OF SAMPLING: 10-2-08
TIME OF SAMPLING: 1350
WEATHER CONDITIONS: Sunny / 57°

## MONITORING/EVACUATION/PURGE DATA

DEPTH TO WATER: 7.78

MEASURING POINT ELEVATION: _____
☒ TOP OF WELL CASING
☐ GROUND SURFACE
☐ TOP OF PROTECTIVE CASING

TOTAL DEPTH OF WELL (ft): 12.45
WATER COLUMN IN WELL (ft): 4.67
CASING DIAMETER (in): 1.5

GROUND SURFACE ELEVATION: _____
WATER LEVEL ELEVATION: _____
GALLONS WATER/FOOT IN WELL:
☐ 2"=.163 gal/ft ☐ 6"=1.468 gal/ft
☐ 4"=.651 gal/ft ☐ 8"=2.610 gal/ft
1.5 = 0.09

GALLONS IN WELL: 0.42

INSTRUMENTATION USED FOR MEASUREMENTS: 040893

LNAPLs DETECTED: ☐ YES ☒ NO
DNAPLs DETECTED: ☐ YES ☒ NO

GALLONS EVACUATED/PURGED PRIOR TO SAMPLING: 3.5
TIME OF PURGING: _____
RECHARGE RATE: ☒ RAPID ☐ MODERATE ☐ SLOW ☐ VERY SLOW
METHOD/PROCEDURE OF EVACUATION/PURGING: peristaltic pump

## SAMPLING DATA/FIELD PARAMETERS

TURBIDITY: Clear
ODOR: None
FILTERED: ☐ YES ☒ NO
OTHER OBSERVATIONS: _____
SAMPLING METHOD/MATERIAL: peristaltic pump

| PARAMETER | MEASUREMENT 1 | MEASUREMENT 2 | MEASUREMENT 3 | | |
|---|---|---|---|---|---|
| pH (s.u.) | 8.35 | 8.11 | 7.96 | 7.60 | 7.56 |
| CONDUCTANCE (umhos/cm) | 6.73 | 6.56 | 6.70 | 6.87 | 6.95 |
| TEMPERATURE ☐ °F ☐ °C | 57.8 | 57.6 | 57.7 | 57.7 | 57.9 |
| OTHER (SPECIFY) _____ | | | | | |

| SAMPLING SEQUENCE | PARAMETERS/METHOD REQUESTED | CONTAINER DESCRIPTION FROM: ☒ LAB ☐ EQ | PRESERVATIVE |
|---|---|---|---|
| 1 | VOC | 3-40mL VOA | HCl |
| 2 | GRO | 2 " | HCl |
| 3 | SVOC | 2-1L Amber | 4°C |
| 4 | PCB | " | 4°C |
| 5 | DRO | " | 4°C |
| 6 | Metals | 1-1L Poly | HNO3 |
| | | 1-1L Amber | |

SAMPLING TEAM MEMBERS: Rosti
LABORATORY NAME, LOCATION, AND PHONE NUMBER: Test America.
COURIER, TRACKING NUMBER, AND DATE OF SHIPMENT: _____

12/00 dmt

ENVIRONMENTAL QUALITY MANAGEMENT, INC.
1800 CARILLON BLVD.
CINCINNATI, OHIO 45240
P (513)825-7500
F (513)825-7495

# GROUNDWATER SAMPLING LOG

WELL NO.: TMW3

SITE: Chemserve
LOCATION: Detroit MI
EQ PROJECT NO: 3228-103

DATE OF SAMPLING: 10-2-08
TIME OF SAMPLING: 1150
WEATHER CONDITIONS: Sunny / 50°

## MONITORING/EVACUATION/PURGE DATA

DEPTH TO WATER: 8.5

MEASURING POINT ELEVATION: _____
☒ TOP OF WELL CASING
☐ GROUND SURFACE
☐ TOP OF PROTECTIVE CASING

TOTAL DEPTH OF WELL (ft): 14.21
WATER COLUMN IN WELL (ft): 5.71
CASING DIAMETER (in): 1.5

GROUND SURFACE ELEVATION: _____
WATER LEVEL ELEVATION: _____
GALLONS WATER/FOOT IN WELL:
☐ 2"=.163 gal/ft ☐ 6"=1.468 gal/ft
☐ 4"=.651 gal/ft ☐ 8"=2.610 gal/ft
* = 0.09 gal/ft

GALLONS IN WELL: 0.51

INSTRUMENTATION USED FOR MEASUREMENTS: 040893

LNAPLs DETECTED: ☐ YES ☒ NO
DNAPLs DETECTED: ☐ YES ☒ NO

GALLONS EVACUATED/PURGED PRIOR TO SAMPLING: 4.5
TIME OF PURGING: _____
RECHARGE RATE: ☒ RAPID ☐ MODERATE ☐ SLOW ☐ VERY SLOW
METHOD/PROCEDURE OF EVACUATION/PURGING: peristaltic pump

## SAMPLING DATA/FIELD PARAMETERS

TURBIDITY: turbid
ODOR: None
FILTERED: ☐ YES ☒ NO
OTHER OBSERVATIONS: _____
SAMPLING METHOD/MATERIAL: peristaltic pump

| PARAMETER | MEASUREMENT 1 | MEASUREMENT 2 | MEASUREMENT 3 |
|---|---|---|---|
| pH (s.u.) 0.1 | 7.04 | 7.12 | 7.09 |
| CONDUCTANCE (umhos/cm) 10% | 3.95 | 5.87 | 6.64 |
| TEMPERATURE ☐ °F ☐ °C 10 | 53.9 | 54.3 | 53.9 |
| OTHER (SPECIFY) _____ | | | |

7.03 7.07 7.09
7.09 7.45 7.46
54.0 54.1 53.9

| SAMPLING SEQUENCE | PARAMETERS/METHOD REQUESTED | CONTAINER DESCRIPTION FROM: ☒ LAB ☐ EQ | PRESERVATIVE |
|---|---|---|---|
| ~~1~~ DX ~~VOC~~ 1 | VOC | 3-40 mL VOA | HCL |
| ~~GRO~~ 2 | GRO | 2-40 mL VOA | HCL |
| 3 | SVOC | 2-1L Amber | 4°C |
| 4 | PCB | 2-1L Amber | 4°C |
| 5 | DRO | 2-1L Amber | 4°C |
| 6 | Metals | 1-1L Poly | HNO3 |
| | | | |
| | | | |

SAMPLING TEAM MEMBERS: Rosti
LABORATORY NAME, LOCATION, AND PHONE NUMBER: TEST AMERICA
COURIER, TRACKING NUMBER, AND DATE OF SHIPMENT: _____

12/00 dmt