# Exhibit 4 Environmental Corridor Study



214 Janes Avenue Saginaw, Michigan 48607 989.754.9896 www.aktpeerless.com

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Jason Kenyon, PE Vice President **Wade Trim** 555 S. Saginaw Street – Suite 201 Flint, Michigan 48502

Subject: Flint Secondary Water Supply Project

Flint, Genesee County, Michigan AKT Peerless Project No. 14535s

Mr. Kenyon:

AKT Peerless Environmental Services (AKT Peerless) appreciates the opportunity to present its findings and provide environmental consulting services for the Flint Secondary Water Supply Project in Flint, Genesee County, Michigan (subject property). AKT Peerless completed a Corridor Study of a 6-mile stretch of land, adjacent to Dort Highway, from the City of Flint's Water Treatment Plant to Frances Road. The purpose of this task was to determine sites of potential environmental concern within the area of the proposed water supply line.

Sincerely,

**AKT Peerless** 

leff Carr

Group Leader - Project Manager

**Enclosure** 



# **CORRIDOR STUDY AND SAMPLE ANALYSIS PLAN**

Flint Secondary Water Supply Project Flint, Genesee County, Michigan AKT Peerless Project No. 14535s

# 1.0 Introduction

AKT Peerless Environmental Services (AKT Peerless) was retained by Wade Trim (Client) to provide environmental consulting services for the Flint Secondary Water Supply Project, located in Flint, Michigan (subject property). The subject property consisted of 6-mile stretch of land, adjacent to Dort Highway, from the City of Flint's Water Treatment Plant to Frances Road. The Corridor Study was completed to determine if any potential environmental concerns within the subject property area are present. Based upon these findings, AKT Peerless will prepare a sample analysis plan (SAP) to evaluate these findings, at the request of the Client.

# 2.0 Corridor Study

Corridor studies are completed for projects that include large-scale redevelopments, underground utility installation, road extensions, pipelines, forestland projects, and other large-scale projects, which include projects over 1 mile in distance. Specifically, this study included the review of environmental databases, both federal and state, as well as the review of historical resources (i.e. fire insurance maps, city directories, topographic maps, and aerial photographs). During the assessment, AKT Peerless evaluated and considered: (1) the potential for contamination of soil and groundwater at the property, (2) the possible presence of underground or aboveground storage tank (UST or AST) systems at the property, (3) the possible presence of hazardous substances or petroleum products at the property, (4) the proximity of the property to known and/or suspected sites of environmental concern, and (5) the historical use of the property and surrounding sites. This study will identify what, if any, properties within the project area may have impacted the subsurface, to better inform redevelopers what environmental risks are present. Refer to **Appendix A** for the Subject Property Maps depicting the subject property location and boundaries.

# 2.1 Subject Property Description

The subject property consists of 16 contiguous parcels of land, beginning at the City of Flint's Water Plant (City of Flint) and ending at Frances Road (Genesee Township). The subject property primarily consists of vacant land covered with grassy and wooded vegetation, and overhead power lines. Furthermore, the subject property crosses West Boulevard Drive, CSX Transportation Railroad, Groveland Avenue, East Webster Road, Carpenter Road, Schaaf Drive, North Dort Highway, Lewis Road, East Coldwater Road, East Stanley Road, East Mt. Morris Road, and East Frances Road.

For ease of reference, AKT Peerless has designated an identification letter correlating to specific sections of the subject property area. Section A consists of land beginning from the water plant to Carpenter Road, Section B consists of land from Carpenter Road to East Coldwater Road, Section C consists of land from East Coldwater Road to East Stanley Road, and Section D consists of land from East Stanley Road to East Frances Road. See the following table for additional subject property details.



# **Subject Property Identifiers**

Section	Tax Identification Number	Owner of Record	Municipality
А	47-32-152-001	Consumers Power Co.	City of Flint
А	47-32-127-001	Consumers Power Co.	City of Flint
А	47-32-126-005	Consumers Power Co.	City of Flint
А	47-29-377-006	Consumers Power Co.	City of Flint
А	47-29-376-008	Consumers Power Co.	City of Flint
А	47-29-302-016	Consumers Power Co.	City of Flint
А	47-29-102-029	Consumers Power Co.	City of Flint
В	11-20-300-020	Consumers Energy Co.	Genesee Township
В	11-20-501-030	Genesee Power Station LTD.	Genesee Township
В	11-20-502-021	Consumers Energy Co.	Genesee Township
В	11-20-502-012	Consumers Energy Co.	Genesee Township
С	11-18-400-003	Consumers Energy Co.	Genesee Township
С	11-18-200-007	Consumers Energy Co.	Genesee Township
D	11-07-400-013	Consumers Energy Co.	Genesee Township
D	11-06-200-007	Consumers Energy Co.	Genesee Township
D	11-06-200-019	Genesee County Land Bank Authority	Genesee Township

# 2.2 Standard Environmental Record Sources

AKT Peerless retained a third-party vendor to provide current environmental database information compiled by a variety of federal and state regulatory agencies. The purpose of obtaining this data was to evaluate potential environmental risks associated with the subject property, adjoining properties, and nearby sites that are: (1) identified on target lists and (2) within varying distances of up to one mile from the subject property. AKT Peerless' review of the referenced databases considered the potential or likelihood of contamination from identified sites. To evaluate which of the sites identified in the database report present an environmental risk to the subject property, AKT Peerless considered the following criteria:

- Type of database on which the site is identified.
- Topographic position of the identified site relative to the subject property.
- Direction and distance of the identified site from the subject property.
- Local soil conditions in the subject property area.



- Known or inferred groundwater flow direction in the subject property area.
- Status of the respective regulatory agency-required investigation(s) of the identified site, if any.
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes, and ditches) located between the identified site and the subject property.

Refer to **Appendix B** for a copy of the Environmental Database Report.

Using the above criteria and based upon a review of readily available information contained within the database report, AKT Peerless did not identify adjoining sites that present a potential environmental risk to the subject property area, except as described in Section 2.2.2.

# 2.2.1 Subject Property Listings

The environmental database report does not identify the subject property on the referenced databases.

# 2.2.2 Adjoining Property Listings

The database report does not identify any adjoining properties on the referenced databases, except for the following:

# Section A - Detail Table for West Adjoining Property (6312 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
6312 North Dort Highway	6312 North Dort Highway, Heritage Crystal Clean LLC, Martin Leasing Company	Adjoining/west	Inferred east	8

#### **Databases**

# Facility Index System (FINDS) and Enforcement / Compliance History Online (ECHO)

These databases are intended to be used to track facilities where environmental compliance regulations are established with on-site permitting associated with air, land, and water programs in accordance with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and/or the Environmental Protection Agency (EPA) regulations. No violations or enforcement actions were reported within the database.

#### Resource Conservation Recovery Act (RCRA)

This database is intended to track sites that generates, transports, stores, treats, and/or disposes of hazardous waste. In November 2004, the site was listed as a non-generator (Non-Gen) and historically listed as a RCRA-Conditionally Exempt Small Quantity Generator (CESQG) as of February 1992. No hazardous waste violations or enforcement actions associated with this database listing were reported.

#### UST

This database records registered USTs within the State of Michigan. Two 10,000-gallon diesel fuel USTs were installed in December 1991 and are currently in use. No releases were reported in association with these USTs. (UTK-089226-15 and UTK-025175-15)

#### Baseline Environmental Assessment (BEA)

This database tracks sites that have been defined as a *facility,* as defined in Part 201 of the NREPA, Michigan Public Act (PA) 451, 1994, as amended. A BEA was completed in March 2002. Contaminants of concern were not provided.



# Section A - Detail Table for Western Adjoining Property (6226 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
6226 North Dort Highway	Genesee Fence & Supply Company	Adjoining/west	Inferred east	7

#### **Databases**

# FINDS / ECHO

No violations or enforcement actions were reported within the database.

#### RCRA-CESQG

By 1970, the site was listed as a RCRA-CESQG. No hazardous waste violations or enforcement actions associated with this database listing were reported.

#### Waste Data System (WDS)

These databases are intended to be used to track facilities where environmental compliance regulations are set forth with on-site permitting associated with waste generation programs in accordance with EGLE regulations. No violations or enforcement actions were reported within the database.

#### UST

A 2,000-gallon gasoline UST was installed in March 1975 and removed from the ground in October 1992. A 2,000-gallon gasoline UST UTK-070406-15 was installed in March 1979 and removed from the ground in October 1992. (UTK-010128-15)

# Leaking Underground Storage Tank (LUST)

This database records releases associated with releases from registered and unregistered USTs within the State of Michigan. One confirmed release (C-1652-92) of gasoline/diesel fuel was reported on September 24, 1992, which was granted closure by EGLE on June 3, 1993.



# Section A - Detail Table for Western Adjoining Property (6200 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Мар Кеу#
6200 North Dort Highway	6200 North Dort High, US Sign Group Inc	Adjoining/west	Inferred east	6

#### **Databases**

# FINDS / ECHO / WASTE

No violations or enforcement actions were reported.

#### RCRA-CESQG

In November 2003, the site was listed as a CESQG and historically listed as a RCRA-Small Quantity Generator (SQG) as of November 1990. No hazardous waste violations or enforcement actions associated with this database listing were reported.

#### UST

A 2,000-gallon diesel UST was removed from the ground in July 1992 and an installation date was not provided. (UTK-075260-15)

#### **BEA**

BEAs were completed in 2011. Contaminants of concern were not provided.

#### LUST

One confirmed release (C-1015-92) of diesel fuel was reported on June 19, 1994, which remains open, indicating corrective actions to evaluate the release has not been completed.

#### MI Inventory

This database is intended to be used to track all known *facilities* where there has been a release of a hazardous substance in excess of the Part 201 residential criteria or Part 213 LUST, of the NREPA. Contaminants of concern were not reported.

# Section A - Detail Table for Western Adjoining Property (5910 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5910 North Dort Highway	Auburn Auto Sales and Parts	Adjoining/west	Inferred east	5

#### **Databases**

#### RCRA

In September 2005, the site was listed as a Non-Gen. Three violations were reported in May 2005, which achieved compliance in March 2014.



# Section A - Detail Table for Western Adjoining Property (4710 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
4710 North Dort Highway	Industrial Iron and Metal Company	Adjoining/ west	Inferred east	1

#### **Databases**

# National Pollutant Discharge Elimination System (NPDES)

A Certificate of Coverage for stormwater discharge became effective April 2015 and expires April 2020. No violations or enforcement actions were reported.

# Solid Waste Recycling Facility (SWRCY)

No violations or enforcement actions were reported.

# Section A - Detail Table for Western Adjoining Property (5200 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5200 North Dort Highway	Marko Metals	Adjoining/west	Inferred east	4

# **Databases**

# **MI Inventory**

BEAs were completed in 2016. Contaminants of concern were not provided.

# Section A - Detail Table for Western Adjoining Property (5000, 5022, and 5030 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5000, 5022, and 5030 North Dort Highway	5000, 5022, and 5030 North Dort Highway	Adjoining/ west	Inferred east	2

# **Databases**

# **MI Inventory**

A BEA was completed in 2016. Contaminants of concern were not provided.



# Section A - Detail Table for Western Adjoining Property (5150 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5150 North Dort Highway	Leemon Oil Company Inc	Adjoining/west	Inferred east	3

#### **Databases**

#### MI Inventory

Contaminants of concern were not reported.

#### Waste

No violations or enforcement actions associated with this database listing were reported.

#### UST

Two 20,000-gallon gasoline USTs were installed in January 1985 and removed from the ground in June 2001. A, 8,000-gallon diesel fuel UST of diesel was installed on March 1979 and removed from the ground in June 2001. Three 8,000-gallon gasoline USTs were installed in March 1979 and removed from the ground in June 2001. (UTK-016316-15, UTK-068124-15, UTK-068121-15, UTK-033546-15, UTK-068116-15, UTK-009845-15)

#### LUST

One confirmed release (C-1182-01) of unknown substance was reported in July 2001 and remains "open."

# Section A - Detail Table for Western Adjoining Property (5130 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5130 North Dort Highway	Parts Depot of Flint LLC	Adjoining/west	Inferred east	3

# **Databases**

# RCRA-Non-Gen/ NLR

As of February 2009, the site was listed as a Non-Gen. No violations or enforcement actions associated with this database listing were reported.

# Section A - Detail Table for Western Adjoining Property (5130 and 5122 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5130 and 5122 North Dort Highway	5130 and 5122 North Dort Highway	Adjoining/west	Inferred east	3

#### **Databases**

#### BEA

A BEA was completed in June 2007. Contaminants of concern were not provided.



# Section A - Detail Table for Western Adjoining Property (5022 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5022 North Dort Highway	Spooner Metals, Inc	Adjoining/ west	Inferred east	2

#### **Databases**

#### Michigan Historic Landfills (MI HIST LF)

This database records inactive landfills within the State of Michigan. This site was listed as an inactive Type II Landfill. No additional details were provided.

#### MI Part 201/ MI Inventory

The source of pollutants is metal processing and on-site contaminants include arsenic, barium, BBP, cadmium, ethylbenzene, fluoranthene, lead, methyl tert-butyl ether, methylene, chloride, naphthalene, phenanthrene, silver, perchloroethylene, trichloroethylene, vinyl chloride, toluene, and xylenes. The status is inactive, no actions taken to address contamination.

# Section A - Detail Table for Western Adjoining Property (5032 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5032 North Dort Highway	Spooner Metals, LLC	Adjoining/ west	Inferred east	2
Databases				

#### SWRCY

Collector of recyclable materials of metals and other recycling. No other information was provided.

#### MI AIRS

This database records sites where the State of Michigan has permitted air discharges of pollutants. In March 2000, as application reason was submitted for a scrap metal shredder with cyclone and wet scrubber. No other information was provided.

#### **WASTE**

As of 1970, this site was listed on the database. Three violations were reported from 1998 to 2001. All violations were achieved compliance by 2001.



# Section B - Detail Table for Eastern Adjoining Property (5061 Energy Drive)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5061 Energy Drive	Mcgill Manufacturing Company	Adjoining/east	Inferred east	9

#### **Databases**

# FINDS / ECHO / RCRA

By December 2003, the site was listed as a RCRA-CESQG and historically listed as a RCRA-SQG as of November 1987. No hazardous waste violations or enforcement actions associated with this database listing were reported.

# Section B - Detail Table for Eastern Adjoining Property (5225 Energy Drive)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5225 Energy Drive	US SAN-TEC Corporation, Michigan Steel Fabrication	Adjoining/east	Inferred east	10

# **Databases**

# FINDS / ECHO / RCRA

By April 2003, the site was listed as a RCRA-SQG and historically listed as a RCRA-Large Quantity Generator (LQG) as of February 1990. One violation was reported in August 1988 and another in July 1990. Both achieved compliance in November 1988 and September 1990, respectively.

#### UST

Two 8,000-gallon water USTs were installed in April 1980 and are temporarily out of use. (UTK-015687-15, UTK-062328-15)



# Section B - Detail Table for Western Adjoining Property (5300 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5300 North Dort Highway	Superior Materials LLC	Adjoining/west	Inferred east	11

#### **Databases**

#### **RCRA**

In September 1988, the site was listed as a RCRA-SQG. No hazardous waste violations or enforcement actions associated with this database listing were reported.

#### AST

A 12,000-gallon AST, of an unreported substance, was installed in February 1997 and is currently in use. No releases have been reported.

# Section B - Detail Table for Eastern Adjoining Property (5310 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5310 North Dort Highway	Genesee Power Station Limited Partnership	Adjoining/east	Inferred east	12

#### **Databases**

# **Integrated Compliance Information System (ICIS)**

This database is intended to track facilities where environmental compliance regulations are set forth with onsite permitting associated with air, land, and water programs in accordance with EGLE and/or EPA regulations. Three violations were reported on the database listing. No further information was provided.

#### **US AIRS**

Inspection/evaluation of the site for compliance monitoring since 1995 with Air programs: MACT Standards (40 CFR Part 63), New Source Performance Standards, Prevention of Significant Deteriorating of Air Quality, State Implementation for National Primary and Secondary Ambient Air Quality Standards, Mandatory Greenhouse Gas Reporting Rule, and Title V Permits. In August 1999, an enforcement action was on New Source Performance Standards. In October 2012, two administrative enforcement actions were on Title V Permits and MACT Standards (40CFR Part 63).

#### **AST**

An 8,000-gallon AST, of an unreported substance was installed in November 1995 and is currently in use. No releases have been reported.



# Section B - Detail Table for Western Adjoining Property (5340 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5340 North Dort Highway	Buckeye Terminals LLC, Flint Terminal, Mobil Oil Corporation	Adjoining/west	Inferred east	13

#### **Databases**

#### **MI Inventory**

Contaminants of concern were not reported.

#### FINDS / RCRA

In September 2008, the site was listed as a RCRA-CESQG and historically listed as a RCRA-SQG and a RCRA-LQG since August 1980. No hazardous waste violations or enforcement actions associated with this database listing were reported.

#### UST

A 2,000-gallon diesel fuel UST was installed in April 1959 and removed from the ground in May 1985. A 4,000-gallon gasoline UST was installed in April 1982 and removed from the ground in December 1993. A 300-gallon gasoline UST was installed in April 1983 and removed from the ground in September 1989. An 8,000-gallon fuel additive UST was installed in April 1977 and closed in ground in September 1989. A 3,000-gallon fuel oil UST was installed in April 1984 and removed from the ground in October 1985. A 20,000-gallon gasoline UST of gasoline was installed in April 1950 and removed from the ground in September 1989. (Record IDs: UTK-020622-15, UTK-064495-15, UTK-047197-15, UTK-064487-15, UTK-064484-15, and UTK-003729-15)

# **LUST**

One confirmed release (C-0234-06) of gasoline/diesel fuel was reported on December 12, 2012, which remains open by EGLE.

#### Fuel Program / AST

A 1,909,798-gallon and 30,000-gallon AST of unknown substance is currently in use and was installed on January 1, 1958. An 842,732-gallon and 2,769,784-gallon AST of unknown substance is currently in use and was installed on January 1, 1959. An 1,999,379-gallon diesel fuel AST is currently in use and was installed on January 1, 1959.

A 3,000-gallon, two 8,000-gallon, 336,000-gallon, and 1,024,453-gallon ASTs of unknown substances are currently in use and were installed on June 23, 1993. An 8,000-gallon AST of unknown substance was installed on June 23, 1993 and the pipe is disconnected. A 2,571,339-gallon AST of unknown substance is currently in use and was installed on January 3, 1996. A 2,000-gallon, 8,000-gallon, 6,000-gallon, and 25,000-gallon AST of unknown substance is currently in use and no installation date is reported. (Tank IDs: ATK-064880-15, ATK-064871-15, ATK-064867-15, ATK-064876-15, ATK-096283-15, ATK-096296-15, ATK-039490-15, ATK-026943-15, ATK-064896-15, ATK-096282-15, ATK-096303-15, ATK-119198-15, ATK-037651-15, ATK-002169-15, ATK-064890-15)



# Section B - Detail Table for Western Adjoining Property (5522 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
5522 North Dort Highway	Reliable Metal Stampings	Adjoining/west	Inferred east	14

# **Databases**

# **RCRA**

In December 2002, this site was listed as a Non-Gen and historically listed as a RCRA-SQG. No hazardous waste violations or enforcement actions associated with this database listing were reported.

# Section C - Detail Table for Western Adjoining Property (1415 East Coldwater Road)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Мар Кеу#
1415 East Coldwater Road	1415 East Coldwater	Adjoining/west	Inferred east	15

# **Databases**

# **MI** Inventory

A BEA was completed in 1997. Contaminants of concern were not provided.



# Section C - Detail Table for Eastern Adjoining Property (6065 North Dort Highway)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
6065 North Dort Highway	MPLX Terminals LLC- Flint Light Products Terminal, Flint MI Terminal, Marathon Oil Company, Marathon Ashland Flint Terminal	Adjoining/east	Inferred east	16

#### **Databases**

#### RCRA / FINDS / ICIS

By April 2018, the site was listed as a RCRA-LQG and historically listed as a RCRA-SGQ as of August 1980. One violation was reported in April 1993 and achieved compliance on May 1993.

#### **US AIRS**

Inspection/evaluation of the site for compliance monitoring since 1987 with Air programs: Title V Permits, Federally-Enforceable State Operating Permit-Non Title V, MACT Standards (40 CFR Part 63), New Source Performance Standards, New Source Performance Requirements, and State Implementation for National Primary and Secondary Ambient Air Quality Standards.

#### UST

A 4,000-gallon fuel additive and amine amidecarboxyla UST was installed in May 1976 and closed in ground in September 1993. (Records ID: U TK-042768-15)

#### LUST

One confirmed release (C-4190-85) was reported in July 1990, which remains open.

# MI Part 201

The source of pollutants is a gasoline filling station and on-site contaminants include 1,2,4 TMB, 1,3,5 TMB, 2-methylnaphthalene, benzene, ethylbenzene, naphthalene, toluene, and xylenes. The status is interim response in progress.



# Section C - Detail Table for Western Adjoining Property (1245 East Coldwater Road)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
1245 East Coldwater Road	Revitalizing Auto Communities Environmental Response Trust, Coldwater Road Landfill, Peregrine Inc	Adjoining/west	Inferred east	17

#### **Databases**

# Corrective Action Report (CORRACTS)

EPA ID: MIR000020743 - Entire facility has been in CORRACT since September 16, 1998. Several actions have been taken on site, such as migration of contaminated groundwater under control, current human exposures under control, RFA Determination of need for an RFI, RFI supplemental information received, RFI workplan received, CA Prioritization, and RFI Imposition.

EPA ID: MID005356860 – Entire facility has been in CORRACTS since May 28, 1987. Several actions have been taken on site such as current human exposures under control, migration of contaminated groundwater under control, Stabilization construction completed, CA Prioritization, Date for Remedy Selection (CM Imposed), Stabilization Measures Implemented, primary measure is source removal and/or treatment., RFI Approved, and RFI Imposition, CMI Workplan approved, RFA Determination of need for an RFI, and RFA completed.

# RCRA-Treatment, Storage, and Disposal Facilities (TSDF)

Revitalizing Auto Communities Environmental Response Trust is engaged in the treatment, storage, or disposal of hazardous waste since April 2011. Historically, the site was listed as a RCRA-Non-Gen and a RCRA-LQG in January 1980. Corrective actions began in September 1998 to September 2018. Three violations were reported in April 1998 and achieved compliance in August 1998. A violation for TSD-Correction Action was reported in March 2004 and achieved compliance in July 2004. A violation for generators requirements was reported in April 2004 and achieved compliance in November 2004. Evaluations of the site have been reported from March 1998 to November 2017.

Coldwater Road Landfill is engaged in the treatment, storage, or disposal of hazardous waste since February 1990. The site is listed as a RCRA-LQG since February 1992 and historically listed as a RCRA-SQG in 1990. Hazardous waste operations included wastewater treatment sludges form electroplating, ignitable waste, and leachate resulting from the treatment, storage, or disposal of wastes. Correction actions began in May 1987 to September 2018. Two violations were reported in April 1984 and achieved compliance in June 1984. Two violations were reported in June 1988 and achieved compliance in July 1988 and July 1989. A violation was reported and returned to compliance in October 1992. A violation was reported and achieved compliance in September 1994. A violation was reported in September 1995 and achieved compliance in December 1996. A violation was reported in April 2005 and achieved compliance in October 2005. Two violations were reported in June 2007 and achieved compliance in September 2008. Two violations were reported in August 2009 and achieved compliance in January 2012. Evaluations of the site have been reported from August 1983 to September 2018.

# **RCRA**

In December 2002, the site was listed as a RCRA Non-Gen and historically listed as a RCRA-LQG as of 1980. Corrective actions began in September 1998 to September 2018. Violations and evaluations were reported in RCRA-TSDF.



#### **Databases (Continued)**

#### RCRA-LQG

In February 1992, the site was listed as a RCRA-LQG. Historically listed as a RCRA-SQG in 1990 and a RCRA-Non-Gen as of November 1980. Hazardous waste, violations, and evaluations were reported in RCRA-TSDF.

Superfund Enterprise Management Systems (SEMS) archive

Site was GMC Fisher Body Coldwater Road and earliest discovery date was December 1, 1979. EPA ID:MID005356860 and Site ID: 0502271

2020 Correction Action Program List

**US Institutional Control** 

**US Financial Assurance Information** 

Effective date: September 30, 2016, EPA ID:MID005356860.

PCB Activity Database System (PADS)

This database records activity including storage, transporting, or disposing of Polychlorinated Biphenyls (PCBs). Certification date- April 2, 1990.

#### **NY Manifest**

Manifest started in May 1996, EPA ID:MID005356860.

#### **UST**

A 2,000-gallon used oil UST was installed in May 1975 and removed from the ground in November 1990. A 2,000-gallon used oil UST was installed in May 1976 and removed from the ground in November 1990. A 2,000-gallon gasoline UST was installed in May 1976 and removed from the ground in November 1990. A 2,000-gallon gasoline UST was installed in May 1976 and removed from the ground in October 1990. A 1,000-gallon plasticol UST was removed from the ground in October 1997. (Records ID: UTK-042570-15, UTK 088849-15, UTK-007855-15, UTK-088845-15 and UTK-007854-15)

# **LUST**

One confirmed release (C-2242-90) of unknown substance was reported in November 1990, which received closure by EGLE in June 1991. One confirmed release (C-2356-90) of unknown substance was reported in November 1990, which received closure by EGLE in September 1991. One confirmed release (C-0982-97) of unknown substance was reported in October 1997, which received closure by EGLE in July 1998.

# Section D - Detail Table for Eastern Adjoining Property (1389 Stanley Road)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:	Map Key#
1389 Stanley Road	International Transmission Company LLC	Adjoining/east	Inferred east	18

#### **Databases**

#### **RCRA**

No hazardous waste violations or enforcement actions associated with this database listing were reported.



# 2.3 Aerial Photographs

AKT Peerless obtained aerial photographs for the subject property and adjoining properties from EDR. AKT Peerless' observations noted during the review of these photographs are summarized in the following tables. Photocopies of select aerial photographs are presented within **Appendix C**.

# **Subject Property Aerial Photography Summary**

Photograph Dates	Observations (Subject Property-all section)
1937-2016	Unless otherwise noted, the subject property has been depicted as undeveloped, with grass and tree covered areas and variable road crossings. The following potential environmental concerns were noted in association with the subject property:
	<ul> <li>As observed within the 1937 – 1999 photographs, a railroad track traverses the subject property, south of Coldwater Road on Section B (Map Key# 23).</li> <li>As observed within the 1937 – 2016 photographs, a railroad track traverses the subject property, north of the water plant on Section A (Map Key# 19).</li> <li>As observed within the 1957 – 2012 photographs, a former salvage yard, industrial storage yard, and potential landfilling on the subject property, south of Coldwater Road on Section A (Map Key# 22).</li> <li>As observed within the 1967 – 1975 photographs, potential landfilling on the subject property, north of the water plant and east of the existing railroad tracks on Section A (Map Key# 20).</li> <li>As observed within the 1975 – 1999 photographs, potential landfilling on the subject property, south of Webster Road and west of the existing trailer park on Section A (Map Key# 21).</li> </ul>

# 2.3.1 Adjoining Property Aerial Photography Summary

Aerial photograph summary of Sections A-D, adjoining properties are summarized in the following tables.

# SECTION A- Richfield Road to Carpenter Road Adjoining Property Aerial Photography Summary

Photograph Dates	Observations (Section A)			
1937 - 2016	Unless otherwise noted, the adjoining properties have been depicted as vacant, agricultural, commercial, industrial, residential, and with variable road crossings over time. The following potential environmental concerns were noted in association with the adjoining properties:			
	<ul> <li>As observed within the 1950 – 2016 photographs, industrial operations including junk/salvage yards are evident on the western adjoining properties (Map Key# 1-4).</li> <li>As observed within the 1967 – 1993, landfilling/land disturbances are evident on the western adjoining properties (Map Key# 5).</li> <li>As observed within the 1982 – 2016 photographs, industrial operations including junk/salvage yards are evident on the western adjoining properties (Map Key# 5-8).</li> </ul>			



# **SECTION B- Carpenter Road to Coldwater Road Adjoining Property Aerial Photography Summary**

Photograph	Observations
Dates	(Section B)
1937-2016	<ul> <li>Unless otherwise noted, the adjoining properties have been depicted as vacant, agricultural, commercial, industrial, residential, and with variable road crossings over time. The following potential environmental concerns were noted in association with the adjoining properties:         <ul> <li>As observed within the 1941 – 2016 photographs, a bulk petroleum plant with several ASTs are evident on the western adjoining property (Map Key# 13).</li> <li>As observed within the 1950 – 1982 photographs, industrial operations including junk/salvage yards are evident on the western adjoining properties (Map Key# 11).</li> <li>As observed within the 1999 – 2016 photographs, industrial operations including an AST is evidence on the eastern adjoining property (Map Key# 12).</li> <li>As observed within the 1999 – 2016 photographs, industrial operations including junk/salvage yards are evident on the western adjoining properties (Map Key# 11, 13, 14).</li> </ul> </li> </ul>

# SECTION C- Coldwater Road to Stanley Road Adjoining Property Aerial Photography Summary

Photograph Dates	Observations (Section C)		
1937-2016	Unless otherwise noted, the adjoining properties have been depicted as vacant, agricultural, commercial, industrial, residential, with variable road crossings over time. The following potential environmental concerns were noted in association with the adjoining properties:		
	<ul> <li>As observed within the 1957 – 2016 photographs, a large industrial plant and landfilling operations are evident on western adjoining property (Map Key# 17).</li> <li>As observed within the 1967 – 2016 photographs, bulk petroleum plant with several ASTs are evident on the eastern adjoining property (Map Key# 16).</li> </ul>		

# SECTION D- Stanley Road to Frances Road Adjoining Property Aerial Photography Summary

Photograph	Observations
Dates	(Section D)
1937-2016	Unless otherwise noted, the adjoining properties have been depicted as vacant, agricultural, commercial, residential, with variable road crossings over time.



# 2.4 City Directories

City Directories from various years between 1957 through 2014 were reviewed by EDR. The purpose of this review was to determine the past occupancy of the subject property. Directories were reviewed in approximately 5-year intervals, or as available. Information obtained from the reviewed directories is summarized in the following tables. Photocopies of city directories are presented within **Appendix D**.

# SECTION A- Richfield Road to Carpenter Road City Directories Data

Year	Listings (Section A)
1957 - 2014	Unless otherwise noted, adjoining property listings consisted of various residential and commercial listings over time. The following potential environmental concerns were noted in association with the adjoining properties:
	• 5150 North Dort Highway, adjoining to the west, was listed as a service station from 1970-1975 (Map Key# 3).

# SECTION B- Carpenter Rd to Coldwater Rd City Directories Data

Year	Listings (Section B)
1957 - 2014	Unless otherwise noted, adjoining property listings consisted of various residential and commercial listings over time. The following potential environmental concerns were noted in association with the adjoining properties:
	<ul> <li>5420 North Dort Highway, adjoining to the west, was listed as an automotive repair shop from 1957-1975 (Map Key# 13).</li> <li>5426 North Dort Highway, adjoining to the west, was listed as an automotive repair shop from 1957-1970 (Map Key# 13).</li> <li>5486 North Dort Highway, adjoining to the east and west, was listed as a construction yard, concrete plant, and concrete manufacturing from 1957-1985 (Map Key# 14).</li> <li>5522 North Dort Highway, adjoining to the east, was listed as a machine shop, concrete plant, and automotive repair at times from 1957-1985 (Map Key# 14).</li> <li>5220 North Dort Highway, adjoining to the west, was listed as an automotive repair shop from 1960-1985 (Map Key# 11).</li> <li>5278/5300 North Dort Highway, adjoining to the west, was listed as a gravel company from 1960-1985 and an oil company in 1960 (Map Key# 11).</li> <li>5370/5340/5388 North Dort Highway, adjoining to the west, was listed as an oil company from 1960-1985 (Map Key# 13).</li> </ul>



# SECTION C- Coldwater Road to Stanley Road City Directories Data

Year	Listings (Section C)
1957 - 2014	Unless otherwise noted, adjoining property listings consisted of various residential and commercial listings over time. The following potential environmental concerns were noted in association with the adjoining properties:
	• 6065 North Dort Highway, adjoining to the east, was listed as an oil company from 1965-2014 (Map Key# 15).

# SECTION D- Stanley Rd to Frances Road City Directories Data

Year	Listings (Section D)
1957 - 2014	Unless otherwise noted, adjoining property listings consisted of various residential and commercial listings over time.

# 3.0 Opinions and Recommendations

Based upon the findings of AKT Peerless' Corridor Study, several sites of potential environmental concern were identified based on: (1) potential sources of contamination based on subject property use overtime and (2) potential sources of contamination based on adjoining property use overtime. See below for a summary of findings for each Section of the subject property.

#### **Section A**

Section A consists of land beginning from the water plant to Carpenter Road. Based upon AKT Peerless' research, a total of three (3) on-site areas of potential concern were identified and a total of eight (8) offsite areas of potential concern were identified. These sites were identified as Map Key# 1 through 8 and 19 through 21. Based on these findings, AKT Peerless recommends further investigation to evaluate the nature, extent, magnitude, and materiality of these sites of potential environmental concern.

# **Section B**

Section B consists of land from Carpenter Road to East Coldwater Road. Based upon AKT Peerless' research, a total of three (3) on-site areas of potential concern were identified and a total of six (6) off-site areas of potential concern were identified. These sites were identified as Map Key# 9 through 14 and 22 through 23. Based on these findings, AKT Peerless recommends further investigation to evaluate the nature, extent, magnitude, and materiality of these sites of potential environmental concern.

#### **Section C**

Section C consists of land from East Coldwater Road to East Stanley Road. Based upon AKT Peerless' research, no (0) on-site areas of potential concern were identified and a total of three (3) off-site areas of potential concern were identified. These sites were identified as Map Key# 15 through 17. Based on these findings, AKT Peerless recommends further investigation to evaluate the nature, extent, magnitude, and materiality of these sites of potential environmental concern.



#### **Section D**

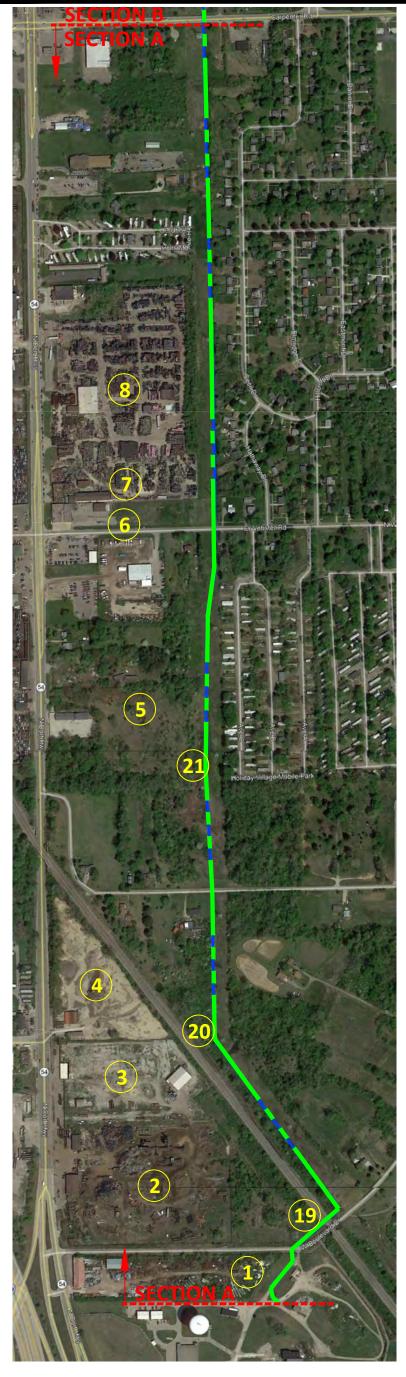
Section D consists of land from East Stanley Road to East Frances Road. Based upon AKT Peerless' research, no (0) on-site areas of potential concern were identified and one (1) off-site area of potential concern was identified. This site was identified as Map Key# 18. However, based on nature of AKT Peerless' findings regarding this site, no further investigation is warranted to evaluate any sites located within Section D.

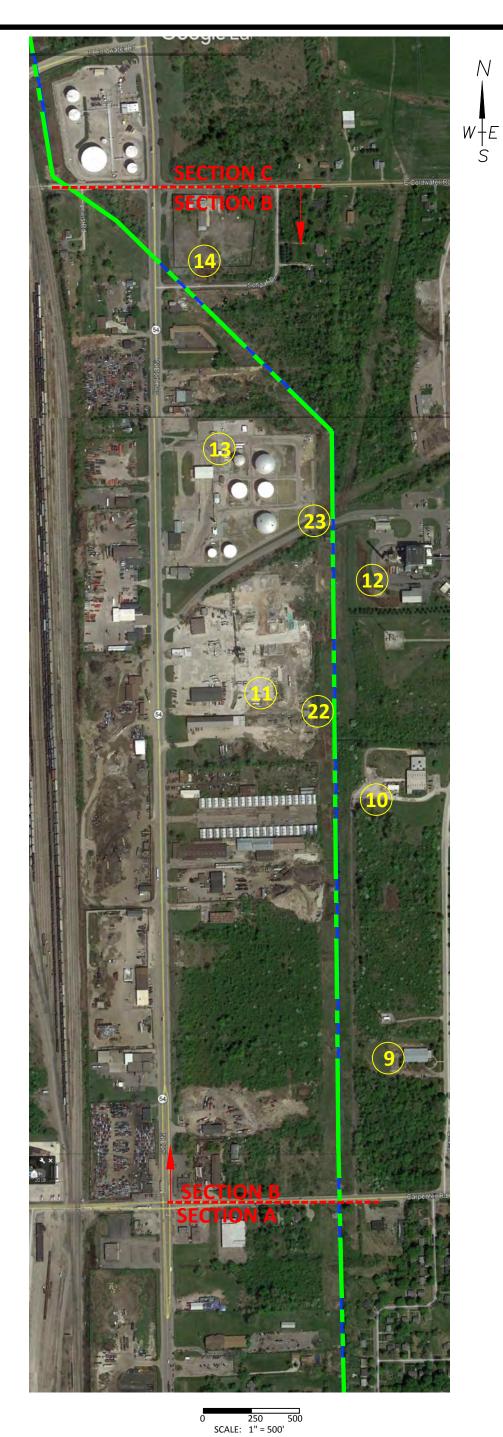
Additional investigations (i.e. subsurface investigations) would be warranted to further evaluate the environmental conditions of the subject property area, specifically to demonstrate compliance with Due Care during the proposed development. Results of the subsurface investigations would provide the Client with a better understanding of soil and groundwater characteristics in order to identify exposure pathways (i.e. volatilization to indoor air, particulate inhalation, and direct contact) and determine disposal methods of contaminant impacted soil and/or groundwater, if necessary. The subsurface investigations would include varying degrees of investigation, due to property size, associated environmental concerns, and ability to access. Select areas of the subject property may be limited due to physical constraints including underground utilities, overhead utilities, and topography,

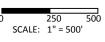
At the request of the Client, AKT Peerless will prepare a scope of work with a cost estimate for subsurface investigation activities to further evaluate the environmental conditions of the subject property.



# Appendix A Subject Property Maps







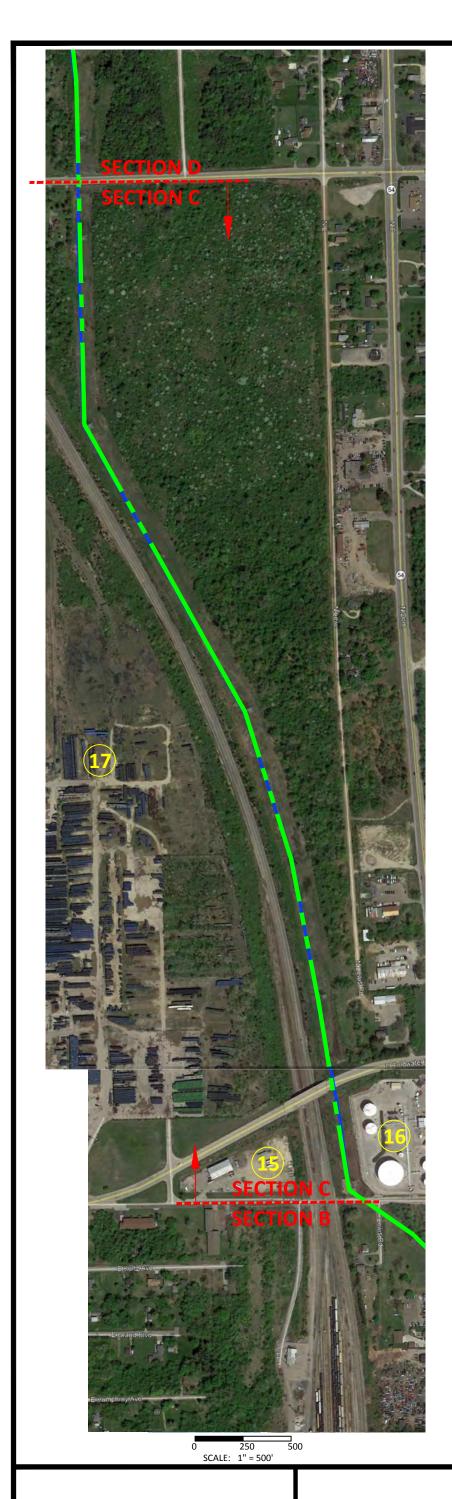
SUBJECT PROPERTY MAP

FLINT, MICHIGAN PROJECT NUMBER: 14535s



FIGURE 1

DRAWN BY: OGO
DATE: 10/04/2019







FLINT, MICHIGAN PROJECT NUMBER: 14535s



DRAWN BY: OGO
DATE: 10/04/2019

W <del>|</del> E S



# Appendix B Environmental Database Report

Flint Secondary Water Supply Project

North Dort Highway Mount Morris, MI 48458

Inquiry Number: 5779007.5s

September 06, 2019

# **EDR Area / Corridor 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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# SUBJECT PROPERTY INFORMATION

#### **ADDRESS**

NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

#### TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

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

# SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor 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.

# STANDARD ENVIRONMENTAL RECORDS

#### Federal CERCLIS list

SEMS: Superfund Enterprise Management System

A review of the SEMS list, as provided by EDR, and dated 07/19/2019 has revealed that there is 1 SEMS site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
PHOTIOU Site ID: 0510601 EPA Id: MIN000510601	5145 NORTH DORT HIGH	W 1/8 - 1/4 (0.182 mi.)	K54 / 13	216

#### Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 07/19/2019 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
<b>ESTECH OIL CO</b> Site ID: 0502696 EPA Id: MID098675937	4701 THETFORD ST	WSW 1/4 - 1/2 (0.364 mi.)	V102 / 13	293
COLDWATER ROAD LANDF Site ID: 0502271 EPA Id: MID005356860	1245 E COLDWATER RD	W 1/4 - 1/2 (0.412 mi.)	W106 / 10	320

# Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

A review of the CORRACTS list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 CORRACTS sites within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
REVITALIZING AUTO CO EPA ID:: MIR000020743	1245 E COLDWATER RD	W 1/4 - 1/2 (0.412 mi.)	W105 / 10	298
COLDWATER ROAD LANDF EPA ID:: MID005356860	1245 E COLDWATER RD	W 1/4 - 1/2 (0.412 mi.)	W106 / 10	320

# Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 RCRA-TSDF sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
REVITALIZING AUTO CO EPA ID:: MIR000020743	1245 E COLDWATER RD	W 1/4 - 1/2 (0.412 mi.)	W105 / 10	298
COLDWATER ROAD LANDF EPA ID:: MID005356860	1245 E COLDWATER RD	W 1/4 - 1/2 (0.412 mi.)	W106 / 10	320

# Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

A review of the RCRA-LQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1

RCRA-LQG site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MPLX TERMINALS LLC -	6065 N DORT HWY	NE 0 - 1/8 (0.094 mi.)	A10/10	63
EPA ID:: MID000724823				

RCRA-SQG: RCRA - Small Quantity Generators

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MICHIGAN STEEL FABRI EPA ID:: MID981955529	5225 ENERGY DR	E 0 - 1/8 (0.103 mi.)	C15 / 10	89
UNIVERSAL COATING IN EPA ID:: MIK294779897	5204 ENERGY DR	E 0 - 1/8 (0.123 mi.)	C18 / 10	95
SUPERIOR MATERIALS L EPA ID:: MID006531958	G5300 N DORT HWY	W 1/8 - 1/4 (0.170 mi.)	L44/10	199

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generator

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 15 RCRA-CESQG sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MCGILL MANUFACTURING EPA ID:: MID982220303	5061 ENERGY DR	E 0 - 1/8 (0.091 mi.)	7/10	51
ACE - SAGINAW PAVING EPA ID:: MID003856689	2184 E COLDWATER RD	NE 1/8 - 1/4 (0.158 mi.)	F24/10	142
GENESEE FENCE AND SU EPA ID:: MID985653187	6226 N DORT HWY	W 1/8 - 1/4 (0.161 mi.)	G27/13	149
US SIGN GROUP INC EPA ID:: MID985599562	6200 N DORT HWY	W 1/8 - 1/4 (0.161 mi.)	G29 / 13	152
MICHIGAN FLEET REPAI EPA ID:: MID046378808	6512 N DORT HWY	W 1/8 - 1/4 (0.162 mi.)	I33 / 13	160
SUNOCO INC EPA ID:: MID985583004	7030 N DORT HWY	W 1/8 - 1/4 (0.162 mi.)	J35 / 13	173
BUCKEYE TERMINALS LL EPA ID:: MID055663314	G5340 N DORT HWY	W 1/8 - 1/4 (0.165 mi.)	40 / 13	184
GLR ADVANCED RECYCLI EPA ID:: MIK684379218	5273 NORTH DORT HWY	W 1/8 - 1/4 (0.173 mi.)	E47 / 13	203
RJ INDUSTRIAL EPA ID:: MIK393799650	5167 N DORT HWY	W 1/8 - 1/4 (0.178 mi.)	K52 / 13	213
INTERNATIONAL TRANSM EPA ID:: MIK432355345	1389 E STANLEY RD	E 1/8 - 1/4 (0.188 mi.)	61 / 7	224
CONSUMERS ENERGY EPA ID:: MIK781025921	2014 E MT. MORRIS RO	E 1/8 - 1/4 (0.197 mi.)	62 / 4	226
D AND M CYLINDERHEAD	7409 N DORT HWY	E 1/8 - 1/4 (0.230 mi.)	Q78/7	244

LYONS WELL DRILLING EPA ID:: MID985654904	8107 N DORT HWY	E 1/8 - 1/4 (0.233 mi.)	84 / 4	253
WOLVERINE FIRE PROTE EPA ID:: MIK239779614	8067 N DORT HWY	E 1/8 - 1/4 (0.232 mi.)	S82 / 4	250
BP PRODUCTS NORTH AM EPA ID:: MIK991124447	7525 N DORT HWY	E 1/8 - 1/4 (0.231 mi.)	R79 / 4	246
EPA ID:: MID061646477				

# Federal institutional controls / engineering controls registries

US INST CONTROL: Sites with Institutional Controls

A review of the US INST CONTROL list, as provided by EDR, and dated 08/19/2019 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
COLDWATER ROAD LANDF	1245 E COLDWATER RD	W 1/4 - 1/2 (0.412 mi.)	W106 / 10	320
EPA ID: MID005356860				

# State and tribal landfill and/or solid waste disposal site lists

MI SWF/LF: Solid Waste Facilities Database

A review of the MI SWF/LF list, as provided by EDR, and dated 06/24/2019 has revealed that there is 1 MI SWF/LF site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
RESOURCE RECOVERY OF	5125 N DORT HWY	WSW 1/8 - 1/4 (0.204 mi.)	O67/13	232
Facility Id: 470533				

# State and tribal leaking storage tank lists

MI LUST: Leaking Underground Storage Tank Sites

A review of the MI LUST list, as provided by EDR, and dated 05/03/2019 has revealed that there are 29 MI LUST sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MPLX TERMINALS LLC - Release Status: Open Facility Id: 00018012	6065 N DORT HWY	NE 0 - 1/8 (0.094 mi.)	A10/10	63
CONTINENTAL BAKING C Release Status: Closed Substance Release: Gasoline,I	1510 E CARPENTER RD Diesel	W 0 - 1/8 (0.111 mi.)	16/13	93
Facility ld: 00015885  ACE ASPHALT GARAGE	2184 E COLDWATER RD	NE 1/8 - 1/4 (0.158 mi.)	F25 / 10	145

Release Status: Closed Substance Release: Diese	el,Diesel			
Facility Id: 00034554  GENESEE FENCE & SUPP Release Status: Closed Substance Release: Gasc Facility Id: 00014967		W 1/8 - 1/4 (0.161 mi.)	G26 / 13	147
US SIGN GROUP INC Release Status: Open Substance Release: Diese Facility Id: 00036141	<b>6200 N DORT HWY</b> el	W 1/8 - 1/4 (0.161 mi.)	G29 / 13	152
MICHIGAN FLEET REPAI Release Status: Closed Substance Release: Unkr Facility Id: 00035647	6512 N DORT HWY	W 1/8 - 1/4 (0.162 mi.)	I33 / 13	160
DORT HWY. GAS & MART Release Status: Closed Facility Id: 00004166	7030 N DORT HWY	W 1/8 - 1/4 (0.162 mi.)	J34 / 13	165
KURTZ GRAVEL CO Release Status: Closed Substance Release: Unkr Facility Id: 00000761	5300 N DORT HWY	W 1/8 - 1/4 (0.165 mi.)	E39/13	178
BUCKEYE TERMINALS LL Release Status: Open Substance Release: Gaso Facility Id: 00017255	G5340 N DORT HWY  Dline, Diesel, Gasoline, Other, Other, G	<b>W</b> 1/8 - 1/4 (0.165 mi.) asoline	40 / 13	184
LEEMON OIL CO INC Release Status: Open Substance Release: Unkr Facility Id: 00012650	5150 N DORT HWY	WSW 1/8 - 1/4 (0.168 mi.)	K41 / 13	191
ROBERT S YOUNG/YOUN Release Status: Open Substance Release: Gasc Substance Release: Usec Facility Id: 00001946	bline	W 1/8 - 1/4 (0.173 mi.)	E48 / 13	205
Release Status: Open Substance Release: Gaso Substance Release: Useo	oline d Oil,Other 7525 N DORT HWY	W 1/8 - 1/4 (0.173 mi.) E 1/8 - 1/4 (0.231 mi.)	E48 / 13	205
Release Status: Open Substance Release: Gaso Substance Release: Useo Facility Id: 00001946 FEDCHENKO SITE Release Status: Open Substance Release: Unkr Substance Release: Gaso	oline d Oil,Other  7525 N DORT HWY  nown oline,Gasoline,Gasoline  8107 N DORT HWY	, ,		
Release Status: Open Substance Release: Gasc Substance Release: Usec Facility Id: 00001946  FEDCHENKO SITE Release Status: Open Substance Release: Unkr Substance Release: Gasc Facility Id: 00035764  LYONS WELL DRILLING Release Status: Closed Substance Release: Gasc	oline d Oil,Other  7525 N DORT HWY  nown oline,Gasoline,Gasoline  8107 N DORT HWY  oline,Diesel	E 1/8 - 1/4 (0.231 mi.)	R81/4 84/4	248
Release Status: Open Substance Release: Gasc Substance Release: Usec Facility Id: 00001946  FEDCHENKO SITE Release Status: Open Substance Release: Unkr Substance Release: Gasc Facility Id: 00035764  LYONS WELL DRILLING Release Status: Closed Substance Release: Gasc Facility Id: 00001600  FLINT WATER PLANT AN Release Status: Closed Substance Release: Gasc Substance Release: Gasc	oline d Oil,Other  7525 N DORT HWY  nown oline,Gasoline,Gasoline  8107 N DORT HWY  oline,Diesel	E 1/8 - 1/4 (0.231 mi.) E 1/8 - 1/4 (0.233 mi.)	R81/4 84/4	248 253

Release Status: Closed Facility Id: 00005509				
FOUR M MFG GROUP OF Release Status: Closed Substance Release: Diesel Facility Id: 00012423	1409 E PIERSON RD	W 1/4 - 1/2 (0.277 mi.)	91 / 13	274
PRINCE SINGH LLC Release Status: Open Substance Release: Unknown Facility Id: 00015951	4111 N DORT HWY	SSW 1/4 - 1/2 (0.286 mi.)	U92 / 15	276
CSX TRANSPORTATION I Release Status: Closed Substance Release: Unknown Facility Id: 00040271	4173 S DORT	SSW 1/4 - 1/2 (0.293 mi.)	94/15	281
AT&T - PINE RUN MICH Release Status: Closed Substance Release: Diesel Facility Id: 00009714	1123 LEWIS RD	ENE 1/4 - 1/2 (0.347 mi.)	98/2	284
POWERS CATHOLIC HIGH Release Status: Closed Substance Release: Gasoline Facility Id: 00033109	2040 W CARPENTER RD	E 1/4 - 1/2 (0.360 mi.)	100/10	288
KIMES CORP  Release Status: Open Facility Id: 00017324	4701 THETFORD RD	WSW 1/4 - 1/2 (0.364 mi.)	V101 / 13	290
UNIVERSAL SYSTEMS Release Status: Closed Substance Release: Gasoline Facility Id: 00007289	1401 E STEWART AVE	WSW 1/4 - 1/2 (0.370 mi.)	103 / 15	296
PEREGRINE INC Release Status: Closed Substance Release: Unknown Facility Id: 00018297	1245 E COLDWATER RD	W 1/4 - 1/2 (0.412 mi.)	W107/10	396
NORTHWESTERN HIGH SC Release Status: Closed Facility Id: 00033784	2138 W CARPENTER RD	E 1/4 - 1/2 (0.415 mi.)	108 / 10	400
MT MORRIS CONSOLIDAT Release Status: Closed Substance Release: Unknown Facility Id: 00035507	12356 WALTER ST	WSW 1/4 - 1/2 (0.432 mi.)	110/3	403
SUPERIOR MOTORS Release Status: Open Facility Id: 50000559	1226 E COLDWATER RD	W 1/4 - 1/2 (0.483 mi.)	113/10	408
MOBIL OIL  Release Status: Open Facility Id: 00016718	2427 PIERSON & CLIO	ENE 1/4 - 1/2 (0.488 mi.)	114/14	409
CUT-RATE FUEL CO Release Status: Closed Facility Id: 00017040	4043 N DORT HWY	SSE 1/4 - 1/2 (0.491 mi.)	115 / 15	413

#### State and tribal registered storage tank lists

MI UST: Underground Storage Tank Facility List

A review of the MI UST list, as provided by EDR, has revealed that there are 18 MI UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MARATHON OIL CO Database: UST, Date of Governm Tank Status: Closed in Ground Facility Type: CLOSED Facility Id: 00018012	6065 N DORT HWY nent Version: 02/06/2019	NE 0 - 1/8 (0.094 mi.)	A11 / 10	81
US SAN-TEC CORP Database: UST 2, Date of Governm Database: UST, Date of Governm Tank Status: Temporarily Out of U Facility ID: 00005130 Facility Type: ACTIVE Facility Id: 00005130	nent Version: 02/06/2019	E 0 - 1/8 (0.103 mi.)	C14 / 10	88
CONTINENTAL BAKING C Database: UST, Date of Governm Tank Status: Removed from Grou Facility Type: CLOSED Facility Id: 00015885		W 0 - 1/8 (0.111 mi.)	16/13	93
ACE ASPHALT GARAGE  Database: UST, Date of Governm Tank Status: Removed from Grou Facility Type: CLOSED Facility Id: 00034554		NE 1/8 - 1/4 (0.158 mi.)	F25 / 10	145
GENESEE FENCE & SUPP Database: UST, Date of Governm Tank Status: Removed from Grou Facility Type: CLOSED Facility Id: 00014967		W 1/8 - 1/4 (0.161 mi.)	G26 / 13	147
US SIGN GROUP INC  Database: UST, Date of Governm Tank Status: Removed from Grou Facility Type: CLOSED Facility Id: 00036141		W 1/8 - 1/4 (0.161 mi.)	G29 / 13	152
MARTIN LEASING CO Database: UST, Date of Governm Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00035801	6312 N DORT HWY nent Version: 02/06/2019	W 1/8 - 1/4 (0.161 mi.)	H32 / 13	158
MICHIGAN FLEET REPAI  Database: UST, Date of Governm Tank Status: Removed from Grou Facility Type: CLOSED Facility Id: 00035647		W 1/8 - 1/4 (0.162 mi.)	I33 / 13	160
DORT HWY. GAS & MART Database: UST, Date of Government	7030 N DORT HWY nent Version: 02/06/2019	W 1/8 - 1/4 (0.162 mi.)	J34 / 13	165

Tank Status: Removed from Ground Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00004166 **KURTZ GRAVEL CO** 5300 N DORT HWY W 1/8 - 1/4 (0.165 mi.) E39 / 13 178 Database: UST, Date of Government Version: 02/06/2019 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00000761 **BUCKEYE TERMINALS LL** W 1/8 - 1/4 (0.165 mi.) **G5340 N DORT HWY** 40 / 13 184 Database: UST, Date of Government Version: 02/06/2019 Tank Status: Removed from Ground Tank Status: Closed in Ground Facility Type: CLOSED Facility Id: 00017255 LEEMON OIL CO INC 5150 N DORT HWY WSW 1/8 - 1/4 (0.168 mi.) K41 / 13 191 Database: UST, Date of Government Version: 02/06/2019 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00012650 **ROBERT S YOUNG/YOUNG** 5305 N DORT HWY W 1/8 - 1/4 (0.173 mi.) E48 / 13 205 Database: UST, Date of Government Version: 02/06/2019 Tank Status: Removed from Ground Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00001946 NATIONAL WELDING SUP 5075 N DORT HWY WSW 1/8 - 1/4 (0.206 mi.) O70 / 13 236 Database: UST. Date of Government Version: 02/06/2019 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00000461 **FEDCHENKO SITE** 7525 N DORT HWY E 1/8 - 1/4 (0.231 mi.) R81/4 248 Database: UST, Date of Government Version: 02/06/2019 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00035764 WOLVERINE FIRE PROTE 8067 N DORT HWY E 1/8 - 1/4 (0.232 mi.) S83 / 4 252 Database: UST, Date of Government Version: 02/06/2019 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00009254 LYONS WELL DRILLING 8107 N DORT HWY E 1/8 - 1/4 (0.233 mi.) 84/4 253 Database: UST, Date of Government Version: 02/06/2019 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00001600 FLINT WATER PLANT AN 4500 N DORT HWY SSW 1/8 - 1/4 (0.236 mi.) 85 / 15 256 Database: UST, Date of Government Version: 02/06/2019 Tank Status: Removed from Ground Facility Type: CLOSED

Facility Id: 00037075

#### MI AST: Aboveground Tanks

A review of the MI AST list, as provided by EDR, and dated 01/15/2019 has revealed that there are 9 MI AST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MPLX TERMINAL LLC - Facility Id: 91025012 Removed/Closed Date: 04/01/199 Removed/Closed Date: 10/25/199 Removed/Closed Date: 03/10/199 Tank Status: Currently In Use Tank Status: Removed from Pren	96 95	NE 0 - 1/8 (0.066 mi.)	1/10	42
EMTERRA ENVIRONMENTA Facility Id: 91084855 Tank Status: Currently In Use	1606 E WEBSTER	W 0 - 1/8 (0.083 mi.)	B4 / 13	47
NORTHWOODS RV COUNTR Facility Id: 92025072 Removed/Closed Date: 05/01/198 Tank Status: Removed from Pren		E 0 - 1/8 (0.115 mi.)	17 / 10	95
GENESEE POWER STATIO Facility Id: 91025131 Tank Status: Currently In Use	G 5310 NORTH DORT HI	E 1/8 - 1/4 (0.151 mi.)	20/10	100
ACE ASPHALT GARAGE Facility Id: 92085174 Removed/Closed Date: 03/23/20 Tank Status: Removed from Pren Tank Status: Currently In Use	-	NE 1/8 - 1/4 (0.158 mi.)	F25 / 10	145
FLINT TERMINAL Facility Id: 91025017 Removed/Closed Date: 09/01/200 Tank Status: Currently In Use Tank Status: Pipe Disconnected	0 N DORT	W 1/8 - 1/4 (0.170 mi.)	L43 / 10	196
SUPERIOR MATERIALS L Facility Id: 91025138 Tank Status: Currently In Use	G5300 N DORT HWY	W 1/8 - 1/4 (0.170 mi.)	L44/10	199
YOUNG'S ENVIRONMENTA List Status: Abovegroun Tank Status: Registered	5305 N DORT HWY	W 1/8 - 1/4 (0.173 mi.)	E49 / 13	210
AIRGAS INC #17 Facility Id: 92084158 Tank Status: Currently In Use	0 N DORT	W 1/8 - 1/4 (0.188 mi.)	60 / 10	223

#### State and tribal institutional control / engineering control registries

MI AUL: Engineering and Institutional Controls

A review of the MI AUL list, as provided by EDR, and dated 06/05/2019 has revealed that there are 3 MI AUL sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
DORT HWY 200 INC Facility ID: 00004166	7030 NORTH DORT HIGH	W 1/8 - 1/4 (0.162 mi.)	J36 / 13	175
KURTZ GRAVEL CO Facility ID: 00000761	5300 NORTH DORT HIGH	W 1/8 - 1/4 (0.165 mi.)	E38 / 13	177
REALM COLDWATER RD.	6220 HORTON STREET	WSW 1/4 - 1/2 (0.387 mi.)	104 / 10	297

#### State and tribal Brownfields sites

MI BROWNFIELDS: Brownfields and UST Site Database

A review of the MI BROWNFIELDS list, as provided by EDR, has revealed that there are 2 MI BROWNFIELDS sites within approximately 0.5 miles of the requested target property.

Site	Address	<b>Direction / Distance</b>	Map ID / Focus Map(s)	Page
BP PRODUCTS NORTH AM	7525 N DORT HWY	E 1/8 - 1/4 (0.231 mi.)	R80 / 4	247
Database: BROWNFIELDS, Date	e of Government Version: 01/15/	2016		
Facility Id: 00035764				
Ernie Id Number: 25000424				
MI DEPT/NATURAL RESO	5201 W BOULEVARD DR	NE 1/4 - 1/2 (0.259 mi.)	89 / 13	272
Database: BROWNFIELDS, Date	e of Government Version: 01/15/	2016		
Ernie Id Number: 25000359				

#### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/03/2019 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
5145 NORTH DORT HIGH	5145 N DORT HWY , 14	W 1/8 - 1/4 (0.182 mi.)	K55 / 13	216
ACRES property ID: 228322				

#### Local Lists of Landfill / Solid Waste Disposal Sites

MI SWRCY: Recycling Facilities

A review of the MI SWRCY list, as provided by EDR, and dated 03/20/2019 has revealed that there are 6 MI SWRCY sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
EMTERRA ENVIRONMENTA	1606 E WEBSTER RD	W 0 - 1/8 (0.083 mi.)	B6 / 13	50
INDUSTRIAL IRON & ME	4710 NORTH DORT HWY	W 0 - 1/8 (0.102 mi.)	13 / 13	82

Site	Address	<b>Direction / Distance</b>	Map ID / Focus Map(s)	Page
ENVIRONMENTAL RUBBER	6515 DORT HIGHWAY	W 1/8 - 1/4 (0.178 mi.)	<i>I</i> 51 / 13	211
ENVIRONMENTAL RUBBER	6515 NORTH DORT HIGH	W 1/8 - 1/4 (0.184 mi.)	<i>I</i> 56 / 13	219
GENESEE RECYCLING (F	5107 NORTH DORT HIGH	WSW 1/8 - 1/4 (0.203 mi.)	O65 / 13	230
SPOONER METALS, LLC	5032 N DORT HIGHWAY	SW 1/8 - 1/4 (0.204 mi.)	O68 / 13	233

MI HIST LF: Inactive Solid Waste Facilities

A review of the MI HIST LF list, as provided by EDR, and dated 03/01/1997 has revealed that there are 3 MI HIST LF sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
WEBSTER ROAD LANDFIL Status: INACTIVE Facility Id: 25000013	1850 E WEBSTER RD SI	E 1/8 - 1/4 (0.202 mi.)	M64 / 13	228
SPOONER METALS, INC. Status: INACTIVE Facility Id: 25000023	5022 N. DORT HIGHWAY	WNW 1/8 - 1/4 (0.220 mi.)	74 / 13	239
FLINT WOOD MATERIALS Status: INACTIVE Facility Id: 25000026	4060 1/2 N DORT HWY	SSE 1/4 - 1/2 (0.426 mi.)	109 / 15	401

#### Local Lists of Hazardous waste / Contaminated Sites

MI PART 201: Part 201 Site List

A review of the MI PART 201 list, as provided by EDR, and dated 10/01/2013 has revealed that there are 10 MI PART 201 sites within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MARATHON ASHLAND FLI Facility Status: Interim Response Facility ID: 25000033	G-6065 N. DORT HIGHW in progress	W 1/8 - 1/4 (0.186 mi.)	58/13	221
REVITALIZING AUTO CO Facility Status: Contact Lead Divi Facility ID: 25000012	1245 E COLDWATER RD sion for current status	WSW 1/8 - 1/4 (0.216 mi.)	73/7	238
SPOONER METALS, INC. Facility Status: Inactive - no actio Facility ID: 25000029	5022 N. DORT HIGHWAY ns taken to address contamination	<b>WNW 1/8 - 1/4 (0.220 mi.)</b> on	74/13	239
MI DEPT/NATURAL RESO Facility Status: Interim Response Facility ID: 25000359	5201 W BOULEVARD DR conducted - No further activities	<b>NE 1/4 - 1/2 (0.259 mi.)</b> anticipated	89/13	272
LOCKHART CHEMICAL CO Facility Status: Interim Response Facility ID: 25000013	4302 JAMES P COLE BL in progress	WSW 1/4 - 1/2 (0.352 mi.)	99/13	286
SE CORNER STEWART/J.  Facility Status: Inactive - no actio Facility ID: 25000676	SE CORNER STEWART/J. ns taken to address contamination	SW 1/2 - 1 (0.538 mi.) on	116 / 15	419
ZACK CO/DEMO DUMP (F	4401 WESTERN ROAD	ESE 1/2 - 1 (0.634 mi.)	117/16	420

Facility Status: Inactive - no actions taken to address contamination Facility ID: 25000352 **PRO-MET PLATING** 1117 & 1109 EAST STE WSW 1/2 - 1 (0.763 mi.) 421 118/15 Facility Status: Interim Response conducted Facility ID: 25000300 2601-2603 RICHFIELD 2601-2603 RICHFIELD 422 SE 1/2 - 1 (0.763 mi.) 119/16 Facility Status: Inactive - no actions taken to address contamination

Facility ID: 25000655

**BRAY ROAD DUMP BRAY ROAD** E 1/2 - 1 (0.802 mi.) 120/11 423

Facility Status: Interim Response in progress

Facility ID: 25000320

MI INVENTORY: Inventory of Facilities

A review of the MI INVENTORY list, as provided by EDR, and dated 04/23/2019 has revealed that there are 34 MI INVENTORY sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
EMTERRA ENVIRONMENTA 1415 EAST COLDWATER Facility ID: 25000267	1606 E WEBSTER RD 1415 E. COLDWATER RD	<b>W 0 - 1/8 (0.083 mi.)</b> W 0 - 1/8 (0.093 mi.)	<b>B6 / 13</b> 9 / 10	<b>50</b> 62
MPLX TERMINALS LLC - Facility ID: 00018012	6065 N DORT HWY	NE 0 - 1/8 (0.094 mi.)	A10/10	63
BUCKEYE TERMINAL FLI Facility ID: 25000212	G5340 N DORT HWY	W 0 - 1/8 (0.100 mi.)	12 / 10	82
MARKO METALS Facility ID: 25000144	5200 N. DORT HIGHWAY	W 1/8 - 1/4 (0.156 mi.)	E23 / 13	141
US SIGN GROUP INC Facility ID: 00036141	6200 N DORT HWY	W 1/8 - 1/4 (0.161 mi.)	G29/13	152
DORT HWY. GAS & MART Facility ID: 00004166	7030 N DORT HWY	W 1/8 - 1/4 (0.162 mi.)	J34 / 13	165
5000, 5022, AND 5030 Facility ID: 25000029	5000, 5022, AND 5030	WNW 1/8 - 1/4 (0.163 mi.)	37 / 13	176
KURTZ GRAVEL CO Facility ID: 00000761	5300 N DORT HWY	W 1/8 - 1/4 (0.165 mi.)	E39 / 13	178
LEEMON OIL CO INC Facility ID: 00012650	5150 N DORT HWY	WSW 1/8 - 1/4 (0.168 mi.)	K41 / 13	191
MOBIL OIL CORP Facility ID: 00017255	G5340 N DORT HWY	W 1/8 - 1/4 (0.170 mi.)	L42 / 10	196
Not reported ROBERT S YOUNG/YOUNG Facility ID: 00001946	5273 NORTH DORT HIGH 5305 N DORT HWY	W 1/8 - 1/4 (0.173 mi.) W 1/8 - 1/4 (0.173 mi.)	E46 / 13 <b>E48 / 13</b>	203 <b>205</b>
MARATHON ASHLAND FLI Facility ID: 25000033	G-6065 N. DORT HIGHW	W 1/8 - 1/4 (0.186 mi.)	58/13	221
G-5135, G-5145 & G-5 4302 JAMES P. COLE B Facility ID: 25000013	G-5135, G-5145 & G-5 4302 JAMES P. COLE B	W 1/8 - 1/4 (0.199 mi.) W 1/8 - 1/4 (0.215 mi.)	N63 / 13 N72 / 13	228 238
REVITALIZING AUTO CO	1245 E COLDWATER RD	WSW 1/8 - 1/4 (0.216 mi.)	73/7	238

5022 N. DORT HIGHWAY	WNW 1/8 - 1/4 (0.220 mi.)	74 / 13	239
			200
G-5273 N DORT HIGHWA	W 1/8 - 1/4 (0.221 mi.)	P75 / 10	241
G-5273 NORTH DORT HI	W 1/8 - 1/4 (0.221 mi.)	P76 / 10	241
7525 N DORT HWY	E 1/8 - 1/4 (0.231 mi.)	R81/4	248
8010 N DORT HWY	E 1/4 - 1/2 (0.256 mi.)	T88 / 4	265
5201 W BOULEVARD DR	NE 1/4 - 1/2 (0.259 mi.)	89 / 13	272
1409 E PIERSON RD 4111 N DORT HWY	W 1/4 - 1/2 (0.277 mi.) SSW 1/4 - 1/2 (0.286 mi.)	91 / 13 U92 / 15	274 276
1420 CARPENTER RD	W 1/4 - 1/2 (0.303 mi.)	95 / 13	283
1357 THROUGH 1373 WE WEBSTER ROAD	W 1/4 - 1/2 (0.309 mi.) E 1/4 - 1/2 (0.329 mi.)	96 / 10 97 / 13	284 284
4302 JAMES P COLE BL	WSW 1/4 - 1/2 (0.352 mi.)	99 / 13	286
4701 THETFORD RD	WSW 1/4 - 1/2 (0.364 mi.)	V101 / 13	290
12356 WALTER ST	WSW 1/4 - 1/2 (0.432 mi.)	110/3	403
4221 JAMES P COLE BO 1226 E COLDWATER RD	WSW 1/4 - 1/2 (0.433 mi.) W 1/4 - 1/2 (0.483 mi.)	X111 / 15 113 / 10	407 <b>408</b>
2427 PIERSON & CLIO	ENE 1/4 - 1/2 (0.488 mi.)	114/14	409
	G-5273 NORTH DORT HI  7525 N DORT HWY  8010 N DORT HWY  5201 W BOULEVARD DR  1409 E PIERSON RD 4111 N DORT HWY  1420 CARPENTER RD  1357 THROUGH 1373 WE WEBSTER ROAD  4302 JAMES P COLE BL  4701 THETFORD RD  12356 WALTER ST  4221 JAMES P COLE BO 1226 E COLDWATER RD	G-5273 NORTH DORT HI W 1/8 - 1/4 (0.221 mi.)  7525 N DORT HWY E 1/8 - 1/4 (0.231 mi.)  8010 N DORT HWY E 1/4 - 1/2 (0.256 mi.)  5201 W BOULEVARD DR NE 1/4 - 1/2 (0.259 mi.)  1409 E PIERSON RD W 1/4 - 1/2 (0.277 mi.)  538W 1/4 - 1/2 (0.286 mi.)  1420 CARPENTER RD W 1/4 - 1/2 (0.303 mi.)  1357 THROUGH 1373 WE W 1/4 - 1/2 (0.309 mi.)  W 1/4 - 1/2 (0.329 mi.)  4302 JAMES P COLE BL WSW 1/4 - 1/2 (0.352 mi.)  4701 THETFORD RD WSW 1/4 - 1/2 (0.364 mi.)  12356 WALTER ST WSW 1/4 - 1/2 (0.432 mi.)  4221 JAMES P COLE BO WSW 1/4 - 1/2 (0.433 mi.)  1226 E COLDWATER RD W 1/4 - 1/2 (0.483 mi.)	G-5273 NORTH DORT HI W 1/8 - 1/4 (0.221 mi.) P76 / 10  7525 N DORT HWY E 1/8 - 1/4 (0.231 mi.) R81 / 4  8010 N DORT HWY E 1/4 - 1/2 (0.256 mi.) T88 / 4  5201 W BOULEVARD DR NE 1/4 - 1/2 (0.259 mi.) 89 / 13  1409 E PIERSON RD W 1/4 - 1/2 (0.277 mi.) 91 / 13  SSW 1/4 - 1/2 (0.286 mi.) U92 / 15  1420 CARPENTER RD W 1/4 - 1/2 (0.303 mi.) 95 / 13  1357 THROUGH 1373 WE W 1/4 - 1/2 (0.309 mi.) 96 / 10  E 1/4 - 1/2 (0.329 mi.) 97 / 13  4302 JAMES P COLE BL WSW 1/4 - 1/2 (0.352 mi.) 99 / 13  4701 THETFORD RD WSW 1/4 - 1/2 (0.364 mi.) V101 / 13  12356 WALTER ST WSW 1/4 - 1/2 (0.432 mi.) 110 / 3  4221 JAMES P COLE BO WSW 1/4 - 1/2 (0.433 mi.) X111 / 15  1226 E COLDWATER RD WSW 1/4 - 1/2 (0.483 mi.) X111 / 15  W 1/4 - 1/2 (0.483 mi.) X111 / 15  W 1/4 - 1/2 (0.483 mi.) X111 / 15

#### Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 13 RCRA NonGen / NLR sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
RICHFIELD MANAGEMENT EPA ID:: MID985608637	1606 E WEBSTER RD	W 0 - 1/8 (0.083 mi.)	B5 / 13	48
YOUNGS ENVIRONMENTAL EPA ID:: MID106869506	G5305 N DORT HWY	W 0 - 1/8 (0.092 mi.)	8/13	53
RELIABLE METAL STAMP	G5522 N DORT HWY	W 1/8 - 1/4 (0.140 mi.)	D19 / 13	99

EPA ID:: MID059826909				
AUBURN AUTO SALES AN EPA ID:: MIK749466694	5910 N DORT HWY	W 1/8 - 1/4 (0.152 mi.)	D22 / 13	139
HERITAGE CRYSTAL CLE EPA ID:: MID985634971	6312 N DORT HWY	W 1/8 - 1/4 (0.161 mi.)	H31 / 13	156
PARTS DEPOT OF FLINT EPA ID:: MIK363839754	5130 N DORT HWY	WSW 1/8 - 1/4 (0.172 mi.)	K45 / 13	201
MICHIGAN STATE POLIC EPA ID:: MIK149745365	1806 E WEBSTER RD	E 1/8 - 1/4 (0.186 mi.)	M57 / 13	219
TRANS MANIA EPA ID:: MID985642164	7045 N DORT HWY	W 1/8 - 1/4 (0.188 mi.)	J59 / 13	221
JET AUTO REPAIR IC EPA ID:: MIK168939957	5201 N DORT HWY	W 1/8 - 1/4 (0.204 mi.)	66 / 13	231
MI DEPT/NATURAL RESO EPA ID:: MIK289424889	5135 W BLVD DR	NE 1/8 - 1/4 (0.205 mi.)	69 / 13	234
DIAMOND BATTERIES EPA ID:: MIK159523243	4617 THETFORD	W 1/8 - 1/4 (0.209 mi.)	N71 / 13	237
AMIRA ENTERPRISES LI EPA ID:: MID985609924	G8010 N DORT HWY	E 1/8 - 1/4 (0.223 mi.)	77 / 4	242
ARMANUS HEAVY GEAR S EPA ID:: MID985622562	7347 N DORT HWY	E 1/8 - 1/4 (0.239 mi.)	Q86/7	263

FUELS PROGRAM: EPA Fuels Program Registered Listing

A review of the FUELS PROGRAM list, as provided by EDR, and dated 05/20/2019 has revealed that there are 2 FUELS PROGRAM sites within approximately 0.25 miles of the requested target property.

Site	Address	Address Direction / Distance Map I			
FLINT MI TERMINAL Company Seq ID: 4268 Company Seq ID: 6396 Facility ID: 81127 Facility ID: 21585	G-6065 N DORT HWY	E 0 - 1/8 (0.073 mi.)	A2/10	45	
FLINT TERMINAL Company Seq ID: 4350 Company Seq ID: 4564 Facility ID: 81700 Facility ID: 21780	G5340 N DORT	SW 1/8 - 1/4 (0.152 mi.)	21/10	138	

MI BEA: Baseline Environmental Assessment Database

A review of the MI BEA list, as provided by EDR, and dated 08/21/2013 has revealed that there are 10 MI BEA sites within approximately 0.5 miles of the requested target property.

Site		Address	Direction / Distance	Map ID / Focus Map(s)	Page	
	EMTERRA ENVIRONMENTA	1606 EAST WEBSTER RO	W 0 - 1/8 (0.083 mi.)	B3 / 13	46	
	6200 NORTH DORT HIGH	6200 NORTH DORT HIGH	W 1/8 - 1/4 (0.161 mi.)	G28 / 13	151	
	6312 NORTH DORT HIGH	6312 NORTH DORT HIGH	W 1/8 - 1/4 (0.161 mi.)	H30 / 13	156	
	5130 AND 5122 NORTH	5130 AND 5122 NORTH	WSW 1/8 - 1/4 (0.174 mi.)	K50 / 13	211	

Site		Address	Address Direction / Distance		Page	
	RJ INDUSTRIAL	5167 N DORT HWY	W 1/8 - 1/4 (0.178 mi.)	K53 / 13	215	
	G-8010 NORTH DORT HI	G-8010 NORTH DORT HI	E 1/8 - 1/4 (0.246 mi.)	T87 / 4	264	
	7365 N. DORT HIGHWAY	7365 N. DORT HIGHWAY	ESE 1/4 - 1/2 (0.287 mi.)	93 / 7	280	
	LOCKHART CHEMICAL CO	4302 JAMES P COLE BL	WSW 1/4 - 1/2 (0.352 mi.)	99 / 13	286	
	FLINT COATINGS INC	4221 JAMES P COLE	WSW 1/4 - 1/2 (0.433 mi.)	X112 / 15	408	
	SUPERIOR MOTORS	1226 E COLDWATER RD	W 1/4 - 1/2 (0.483 mi.)	113 / 10	408	

WI MANIFEST: Hazardous Waste Manifest Data

A review of the WI MANIFEST list, as provided by EDR, and dated 05/31/2018 has revealed that there is 1 WI MANIFEST site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
YOUNGS ENVIRONMENTAL	G5305 N DORT HWY	W 0 - 1/8 (0.092 mi.)	8/13	53
ACT Status: I				
ACT Status: A				
FID: 998036380				
EPA ID: MID106869506				

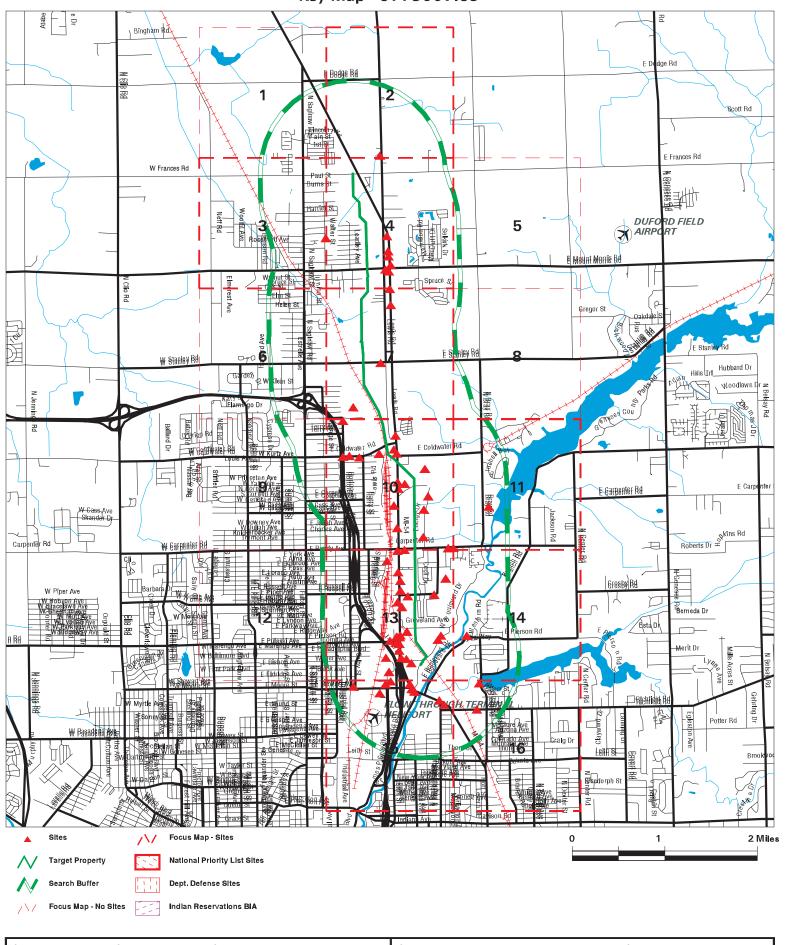
MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		「(ft. & n ECTION	
1 / 10	MPLX TERMINAL LLC -	0 N DORT	MI AST	348	0.066	NE
A2 / 10	FLINT MI TERMINAL	G-6065 N DORT HWY	FINDS, FUELS PROGRAM	386	0.073	East
B3 / 13	EMTERRA ENVIRONMENTA	1606 EAST WEBSTER RO	MI BEA, MI NPDES	437	0.083	West
B4 / 13	EMTERRA ENVIRONMENTA	1606 E WEBSTER	MI AST	437	0.083	West
B5 / 13	RICHFIELD MANAGEMENT	1606 E WEBSTER RD	RCRA NonGen / NLR, FINDS, ECHO	437	0.083	West
B6 / 13	EMTERRA ENVIRONMENTA	1606 E WEBSTER RD	MI SWRCY, MI INVENTORY, MI WDS	437	0.083	West
7 / 10	MCGILL MANUFACTURING	5061 ENERGY DR	RCRA-CESQG, FINDS, ECHO	483	0.091	East
8 / 13	YOUNGS ENVIRONMENTAL	G5305 N DORT HWY	RCRA NonGen / NLR, WI MANIFEST	487	0.092	West
9 / 10	1415 EAST COLDWATER	1415 E. COLDWATER RD	MI INVENTORY	490	0.093	West
A10 / 10	MPLX TERMINALS LLC -	6065 N DORT HWY	RCRA-LQG, MI LUST, MI INVENTORY, ICIS, U	496	0.094	NE
A11 / 10	MARATHON OIL CO	6065 N DORT HWY	MIUST	496	0.094	NE
12 / 10	BUCKEYE TERMINAL FLI	G5340 N DORT HWY	MI INVENTORY	530	0.100	West
13 / 13	INDUSTRIAL IRON & ME	4710 NORTH DORT HWY	MI SWRCY, MI NPDES	537	0.102	West
C14 / 10	US SAN-TEC CORP	5225 ENERGY DR	MIUST	542	0.103	East
C15 / 10	MICHIGAN STEEL FABRI	5225 ENERGY DR	RCRA-SQG, FINDS, ECHO	542	0.103	East
16 / 13	CONTINENTAL BAKING C	1510 E CARPENTER RD	MI LUST, MI UST, MI WDS	587	0.111	West
17 / 10	NORTHWOODS RV COUNTR	0 N DORT	MI AST	607	0.115	East
C18 / 10	UNIVERSAL COATING IN	5204 ENERGY DR	RCRA-SQG	647	0.123	East
D19 / 13	RELIABLE METAL STAMP	G5522 N DORT HWY	RCRA NonGen / NLR	741	0.140	West
20 / 10	GENESEE POWER STATIO	G 5310 NORTH DORT HI	MI AST, ICIS, US AIRS	796	0.151	East
21 / 10	FLINT TERMINAL	G5340 N DORT	FINDS, FUELS PROGRAM	800	0.152	SW
D22 / 13	AUBURN AUTO SALES AN	5910 N DORT HWY	RCRA NonGen / NLR	803	0.152	West
E23 / 13	MARKO METALS	5200 N. DORT HIGHWAY	MI INVENTORY	826	0.156	West
F24 / 10	ACE - SAGINAW PAVING	2184 E COLDWATER RD	RCRA-CESQG, US AIRS, FINDS, ECHO	832	0.158	NE
F25 / 10	ACE ASPHALT GARAGE	2184 E COLDWATER RD	MI LUST, MI UST, MI AST	832	0.158	NE
G26 / 13	GENESEE FENCE & SUPP	6226 N DORT HWY	MI LUST, MI UST, MI WDS	848	0.161	West
G27 / 13	GENESEE FENCE AND SU	6226 N DORT HWY	RCRA-CESQG, FINDS, ECHO	848	0.161	West
G28 / 13	6200 NORTH DORT HIGH	6200 NORTH DORT HIGH	MI BEA	849	0.161	West
G29 / 13	US SIGN GROUP INC	6200 N DORT HWY	RCRA-CESQG, MI LUST, MI UST, MI INVENTOR	849	0.161	West
H30 / 13	6312 NORTH DORT HIGH	6312 NORTH DORT HIGH	MI BEA	851	0.161	West
H31 / 13	HERITAGE CRYSTAL CLE	6312 N DORT HWY	RCRA NonGen / NLR, FINDS, ECHO	851	0.161	West
H32 / 13	MARTIN LEASING CO	6312 N DORT HWY	MIUST	851	0.161	West
l33 / 13	MICHIGAN FLEET REPAI	6512 N DORT HWY	RCRA-CESQG, MI LUST, MI UST, FINDS, ECHO	854	0.162	West
J34 / 13	DORT HWY. GAS & MART	7030 N DORT HWY	MI LUST, MI UST, MI INVENTORY	858	0.162	West
J35 / 13	SUNOCO INC	7030 N DORT HWY	RCRA-CESQG, FINDS, ECHO	858	0.162	West
J36 / 13	DORT HWY 200 INC	7030 NORTH DORT HIGH	MI AUL	858	0.162	West
37 / 13	5000, 5022, AND 5030	5000, 5022, AND 5030	MI INVENTORY	863	0.163	WNW
E38 / 13	KURTZ GRAVEL CO	5300 NORTH DORT HIGH	MI AUL	872	0.165	West
E39 / 13	KURTZ GRAVEL CO	5300 N DORT HWY	MI LUST, MI UST, MI INVENTORY	872	0.165	West

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		ft. & n	
40 / 13	BUCKEYE TERMINALS LL	G5340 N DORT HWY	RCRA-CESQG, MI LUST, MI UST	873	0.165	West
K41 / 13	LEEMON OIL CO INC	5150 N DORT HWY	MI LUST, MI UST, MI INVENTORY, MI WDS	885	0.168	WSW
L42 / 10	MOBIL OIL CORP	G5340 N DORT HWY	MI INVENTORY	896	0.170	West
L43 / 10	FLINT TERMINAL	0 N DORT	MI AST	897	0.170	West
L44 / 10	SUPERIOR MATERIALS L	G5300 N DORT HWY	RCRA-SQG, MI AST	898	0.170	West
K45 / 13	PARTS DEPOT OF FLINT	5130 N DORT HWY	RCRA NonGen / NLR	908	0.172	WSW
E46 / 13		5273 NORTH DORT HIGH	MI INVENTORY	911	0.173	West
E47 / 13	GLR ADVANCED RECYCLI	5273 NORTH DORT HWY	RCRA-CESQG	911	0.173	West
E48 / 13	ROBERT S YOUNG/YOUNG	5305 N DORT HWY	MI LUST, MI UST, MI INVENTORY	912	0.173	West
E49 / 13	YOUNG'S ENVIRONMENTA	5305 N DORT HWY	MI AST	912	0.173	West
K50 / 13	5130 AND 5122 NORTH	5130 AND 5122 NORTH	MI BEA	918	0.174	WSW
I51 / 13	ENVIRONMENTAL RUBBER	6515 DORT HIGHWAY	MI SWRCY, MI NPDES	940	0.178	West
K52 / 13	RJ INDUSTRIAL	5167 N DORT HWY	RCRA-CESQG	942	0.178	West
K53 / 13	RJ INDUSTRIAL	5167 N DORT HWY	MI BEA, MI WDS	942	0.178	West
K54 / 13	PHOTIOU	5145 NORTH DORT HIGH	SEMS	963	0.182	West
K55 / 13	5145 NORTH DORT HIGH	5145 N DORT HWY , 14	US BROWNFIELDS	963	0.182	West
I56 / 13	ENVIRONMENTAL RUBBER	6515 NORTH DORT HIGH	MI SWRCY, MI WDS	970	0.184	West
M57 / 13	MICHIGAN STATE POLIC	1806 E WEBSTER RD	RCRA NonGen / NLR	982	0.186	East
58 / 13	MARATHON ASHLAND FLI	G-6065 N. DORT HIGHW	MI INVENTORY, MI PART 201	984	0.186	West
J59 / 13	TRANS MANIA	7045 N DORT HWY	RCRA NonGen / NLR, FINDS, ECHO	990	0.188	West
60 / 10	AIRGAS INC #17	0 N DORT	MI AST	992	0.188	West
61 / 7	INTERNATIONAL TRANSM	1389 E STANLEY RD	RCRA-CESQG	993	0.188	East
62 / 4	CONSUMERS ENERGY	2014 E MT. MORRIS RO	RCRA-CESQG, FINDS, ECHO	1041	0.197	East
N63 / 13	G-5135, G-5145 & G-5	G-5135, G-5145 & G-5	MI INVENTORY	1051	0.199	West
M64 / 13	WEBSTER ROAD LANDFIL	1850 E WEBSTER RD SI	MI HIST LF	1067	0.202	East
O65 / 13	GENESEE RECYCLING (F	5107 NORTH DORT HIGH	MI SWRCY, MI SPILLS	1071	0.203	WSW
66 / 13	JET AUTO REPAIR IC	5201 N DORT HWY	RCRA NonGen / NLR	1075	0.204	West
O67 / 13	RESOURCE RECOVERY OF	5125 N DORT HWY	MI SWF/LF, MI Financial Assurance, MI WD	1075	0.204	WSW
O68 / 13	SPOONER METALS, LLC	5032 N DORT HIGHWAY	MI SWRCY, MI AIRS, MI WDS	1077	0.204	SW
69 / 13	MI DEPT/NATURAL RESO	5135 W BLVD DR	RCRA NonGen / NLR	1085	0.205	NE
O70 / 13	NATIONAL WELDING SUP	5075 N DORT HWY	MIUST	1088	0.206	WSW
N71 / 13	DIAMOND BATTERIES	4617 THETFORD	RCRA NonGen / NLR	1101	0.209	West
N72 / 13	4302 JAMES P. COLE B	4302 JAMES P. COLE B	MI INVENTORY	1135	0.215	West
73 / 7	REVITALIZING AUTO CO	1245 E COLDWATER RD	MI INVENTORY, MI PART 201, MI Financial	1141	0.216	WSW
74 / 13	SPOONER METALS, INC.	5022 N. DORT HIGHWAY	MI HIST LF, MI PART 201, MI INVENTORY	1162	0.220	WNW
P75 / 10	RENO AUTO PARTS, INC	G-5273 N DORT HIGHWA	MI INVENTORY	1165	0.221	West
P76 / 10	G-5273 NORTH DORT HI	G-5273 NORTH DORT HI	MI INVENTORY	1165	0.221	West
77 / 4	AMIRA ENTERPRISES LI	G8010 N DORT HWY	RCRA NonGen / NLR	1176	0.223	East
Q78 / 7	D AND M CYLINDERHEAD	7409 N DORT HWY	RCRA-CESQG, FINDS, ECHO	1215	0.230	East

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		(ft. & m CTION	
R79 / 4	BP PRODUCTS NORTH AM	7525 N DORT HWY	RCRA-CESQG	1219	0.231	East
R80 / 4	BP PRODUCTS NORTH AM	7525 N DORT HWY	MI BROWNFIELDS, MI WDS	1219	0.231	East
R81 / 4	FEDCHENKO SITE	7525 N DORT HWY	MI LUST, MI UST, MI INVENTORY	1219	0.231	East
S82 / 4	WOLVERINE FIRE PROTE	8067 N DORT HWY	RCRA-CESQG	1227	0.232	East
S83 / 4	WOLVERINE FIRE PROTE	8067 N DORT HWY	MI UST	1227	0.232	East
84 / 4	LYONS WELL DRILLING	8107 N DORT HWY	RCRA-CESQG, MI LUST, MI UST, FINDS, ECHO	1231	0.233	East
85 / 15	FLINT WATER PLANT AN	4500 N DORT HWY	MI LUST, MI UST, FTTS, HIST FTTS, MI AIR	1248	0.236	SSW
Q86 / 7	ARMANUS HEAVY GEAR S	7347 N DORT HWY	RCRA NonGen / NLR, FINDS, ECHO	1261	0.239	East
T87 / 4	G-8010 NORTH DORT HI	G-8010 NORTH DORT HI	MI BEA	1297	0.246	East
T88 / 4	MT. MORRIS EXPRESS S	8010 N DORT HWY	MI LUST, MI UST, MI INVENTORY, MI Financ	1352	0.256	East
89 / 13	MI DEPT/NATURAL RESO	5201 W BOULEVARD DR	MI BROWNFIELDS, MI PART 201, MI INVENTOR	1367	0.259	NE
U90 / 15	BITUMINOUS PAVERS, I	4101 S DORT HWY	MI LUST, MI UST	1456	0.276	SSW
91 / 13	FOUR M MFG GROUP OF	1409 E PIERSON RD	MI LUST, MI UST, MI INVENTORY, MI WDS	1460	0.277	West
U92 / 15	PRINCE SINGH LLC	4111 N DORT HWY	MI LUST, MI UST, MI INVENTORY, MI Financ	1508	0.286	SSW
93 / 7	7365 N. DORT HIGHWAY	7365 N. DORT HIGHWAY	MI BEA	1517	0.287	ESE
94 / 15	CSX TRANSPORTATION I	4173 S DORT	MI LUST, MI UST, MI WDS	1548	0.293	SSW
95 / 13	CSX RAILROAD, CARPEN	1420 CARPENTER RD	MI INVENTORY	1598	0.303	West
96 / 10	1357 THROUGH 1373 WE	1357 THROUGH 1373 WE	MI INVENTORY	1631	0.309	West
97 / 13	FLINT, CITY OF, WEBS	WEBSTER ROAD	MI INVENTORY	1736	0.329	East
98 / 2	AT&T - PINE RUN MICH	1123 LEWIS RD	MI LUST, MI UST, MI WDS	1832	0.347	ENE
99 / 13	LOCKHART CHEMICAL CO	4302 JAMES P COLE BL	MI PART 201, MI INVENTORY, MI AIRS, MI B	1856	0.352	WSW
100 / 10	POWERS CATHOLIC HIGH	2040 W CARPENTER RD	MI LUST, MI UST	1903	0.360	East
V101 / 13	KIMES CORP	4701 THETFORD RD	MI LUST, MI UST, MI INVENTORY	1924	0.364	WSW
V102 / 13	ESTECH OIL CO	4701 THETFORD ST	SEMS-ARCHIVE, RCRA NonGen / NLR	1924	0.364	WSW
103 / 15	UNIVERSAL SYSTEMS	1401 E STEWART AVE	MI LUST, MI UST, MI WDS	1951	0.370	WSW
104 / 10	REALM COLDWATER RD.	6220 HORTON STREET	MI AUL	2044	0.387	WSW
W105 / 10	REVITALIZING AUTO CO	1245 E COLDWATER RD	CORRACTS, RCRA-TSDF, RCRA NonGen / NLR,	2174	0.412	West
W106 / 10	COLDWATER ROAD LANDF	1245 E COLDWATER RD	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA	۹-2174	0.412	West
W107 / 10	PEREGRINE INC	1245 E COLDWATER RD	MI LUST, MI UST	2174	0.412	West
108 / 10	NORTHWESTERN HIGH SC	2138 W CARPENTER RD	MI LUST, MI UST	2193	0.415	East
109 / 15	FLINT WOOD MATERIALS	4060 1/2 N DORT HWY	MI HIST LF	2247	0.426	SSE
110/3	MT MORRIS CONSOLIDAT	12356 WALTER ST	MI LUST, MI UST, MI INVENTORY, MI Financ	2280	0.432	WSW
X111 / 15		4221 JAMES P COLE BO	MI INVENTORY	2288	0.433	WSW
X112 / 15	FLINT COATINGS INC	4221 JAMES P COLE	MI BEA, MI WDS	2288	0.433	WSW
113 / 10	SUPERIOR MOTORS	1226 E COLDWATER RD	MI LUST, MI INVENTORY, MI BEA	2551	0.483	West
114 / 14	MOBIL OIL	2427 PIERSON & CLIO	MI LUST, MI UST, MI INVENTORY	2579	0.488	ENE
115 / 15	CUT-RATE FUEL CO	4043 N DORT HWY	MI LUST, MI UST, MI WDS	2591	0.491	SSE
116 / 15	SE CORNER STEWART/J.	SE CORNER STEWART/J.	MI INVENTORY, MI PART 201	2843	0.538	SW
117 / 16	ZACK CO/DEMO DUMP (F	4401 WESTERN ROAD	MI PART 201, MI INVENTORY, MI BEA, MI WD	3345	0.634	ESE

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		(ft. & m	i.)
118 / 15	PRO-MET PLATING	1117 & 1109 EAST STE	MI BROWNFIELDS, MI PART 201, MI INVENTOR			WSW
119 / 16	2601-2603 RICHFIELD	2601-2603 RICHFIELD	MI PART 201, MI INVENTORY, MI BEA	4030	0.763	SE
120 / 11	BRAY ROAD DUMP	BRAY ROAD	MI INVENTORY, MI PART 201	4233	0.802	East

### Key Map - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI 48458

ZIP:

CLIENT: AKT Peerless Environmental Svc CONTACT: Kammie Hauger

DATE: 09/06/19 2:17 PM Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

INQUIRY#: 5779007.5s

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONME	NTAL RECORD	<u>s</u>						
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL sit	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 1	0 0	NR NR	NR NR	0 1
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	2	NR	NR	2
Federal RCRA CORRAC	TS facilities l	ist						
CORRACTS	1.000		0	0	2	0	NR	2
Federal RCRA non-COR	RACTS TSD	facilities list						
RCRA-TSDF	0.500		0	0	2	NR	NR	2
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		1 2 1	0 1 14	NR NR NR	NR NR NR	NR NR NR	1 3 15
Federal institutional cor engineering controls re								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 1	NR NR NR	NR NR NR	0 0 1
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS	S						
MI SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill a solid waste disposal site								
MI SWF/LF	0.500		0	1	0	NR	NR	1
State and tribal leaking	storage tank l	lists						
MI LUST INDIAN LUST	0.500 0.500		2 0	12 0	15 0	NR NR	NR NR	29 0
State and tribal register	ed storage tai	nk lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MI UST MI AST INDIAN UST	0.250 0.250 0.250		3 3 0	15 6 0	NR NR NR	NR NR NR	NR NR NR	18 9 0
State and tribal institutio control / engineering cor		s						
MI AUL	0.500		0	2	1	NR	NR	3
State and tribal voluntary	y cleanup site	s						
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfie	elds sites							
MI BROWNFIELDS	0.500		0	1	1	NR	NR	2
ADDITIONAL ENVIRONME	NTAL RECORD	ns						
ADDITIONAL ENVIRONME	MAL KLOOK	<u></u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	1	0	NR	NR	1
Local Lists of Landfill / S Waste Disposal Sites	Solid							
MI SWRCY MI HIST LF INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500 0.500		2 0 0 0 0	4 2 0 0 0 0	0 1 0 0 0 0	NR NR NR NR NR	NR NR NR NR NR NR	6 3 0 0 0
Local Lists of Hazardous Contaminated Sites	s waste /							
US HIST CDL MI PART 201 MI INVENTORY MI CDL MI DEL PART 201 US CDL	TP 1.000 0.500 TP 1.000 TP		NR 0 4 NR 0 NR	NR 3 17 NR 0 NR	NR 2 13 NR 0 NR	NR 5 NR NR 0 NR	NR NR NR NR NR	0 10 34 0 0
Local Land Records								
MI LIENS LIENS 2	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Records of Emergency Release Reports								
HMIRS MI SPILLS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS	0.250 1.000 1.000 0.500		2 0 0 0	11 0 0 0	NR 0 0 0	NR 0 0 NR	NR NR NR NR	13 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	Ö
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA PCB TRANSFORMER	0.500 TP		0 NR	0 NR	0 NR	NR NR	NR NR	0
RADINFO	TP		NR	NR	NR NR	NR	NR	0 0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		Ö	ő	Ö	0	NR	0
FUSRAP	1.000		Ŏ	ő	Ö	Ö	NR	Ö
UMTRA	0.500		Ö	Ō	Ō	NR	NR	Ō
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM MI AIRS	0.250 TP		1 NR	1 NR	NR NR	NR NR	NR NR	2 0
MI ASBESTOS	TP		NR	NR	NR NR	NR	NR	0
MI BEA	0.500		1	5	4	NR	NR	10
MI COAL ASH	0.500		Ö	0	0	NR	NR	0
MI DRYCLEANERS	0.250		Ö	Ö	NR	NR	NR	Ö
MI Financial Assurance	TP		NR	NR	NR	NR	NR	0
MI LEAD	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
WI MANIFEST	0.250		1	0	NR	NR	NR	1
MI NPDES	TP		NR	NR	NR	NR	NR	0
MI UIC	TP		NR	NR	NR	NR	NR	0
MI WDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORIC	AL RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
-			-	-	-	-		-

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto EDR Hist Cleaner	0.125 0.125		0	NR NR	NR NR	NR NR	NR NR	0 0
EDR RECOVERED GOVE		IVES						
								_
MI RGA PART 201	TP		NR	NR	NR	NR	NR	0
MI RGA LF	TP		NR	NR	NR	NR	NR	0
MI RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		0	23	97	44	5	0	169

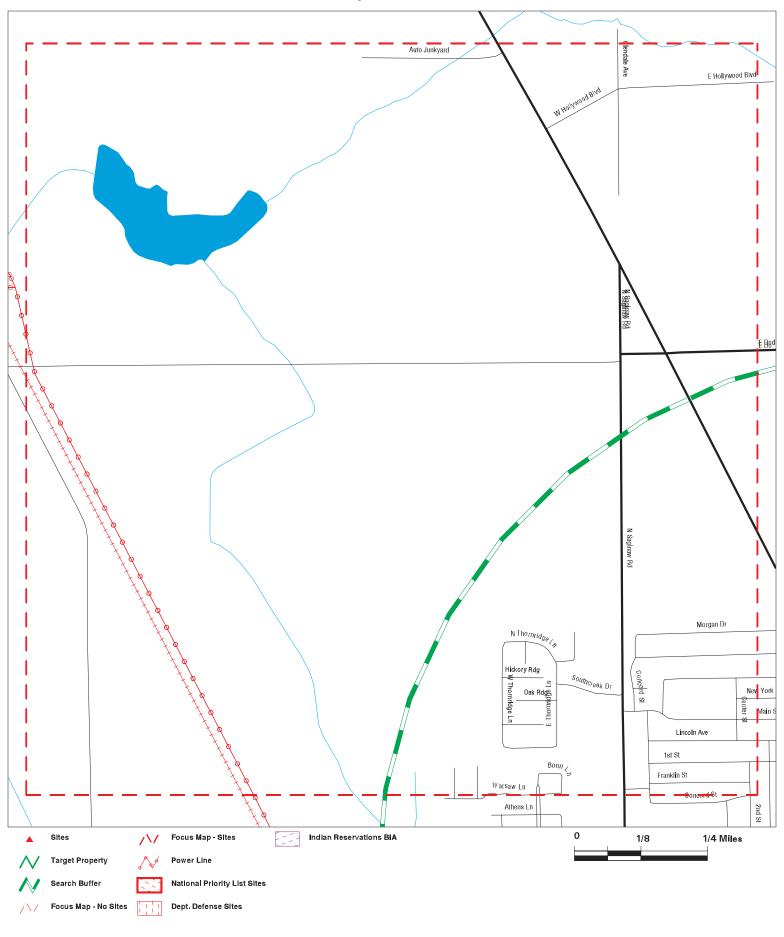
#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI ZIP:

48458

CLIENT: AKT Peerless Er CONTACT: Kammie Hauger AKT Peerless Environmental Svc

INQUIRY#: 5779007.5s DATE: 09/06/19

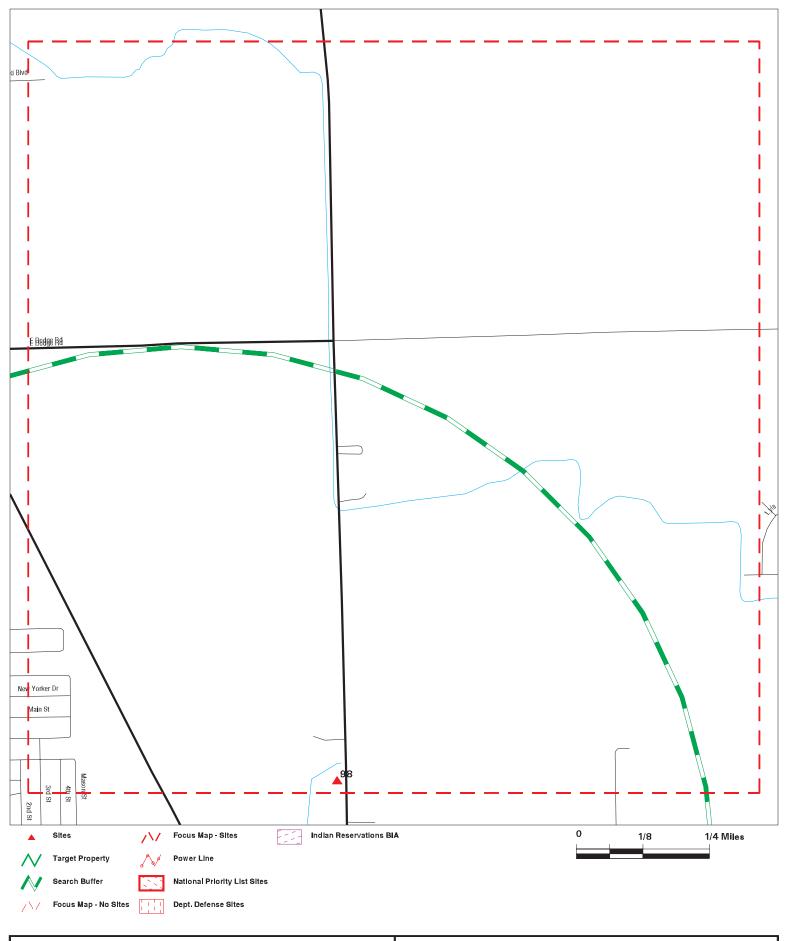
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Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 2 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project ADDRESS: North Dort Highway

CITY/STATE: Mount Morris MI

ZIP: 48458 AKT Peerless Environmental Svc

CLIENT: AKT Peerless Er CONTACT: Kammie Hauger INQUIRY#: 5779007.5s DATE: 09/06/19

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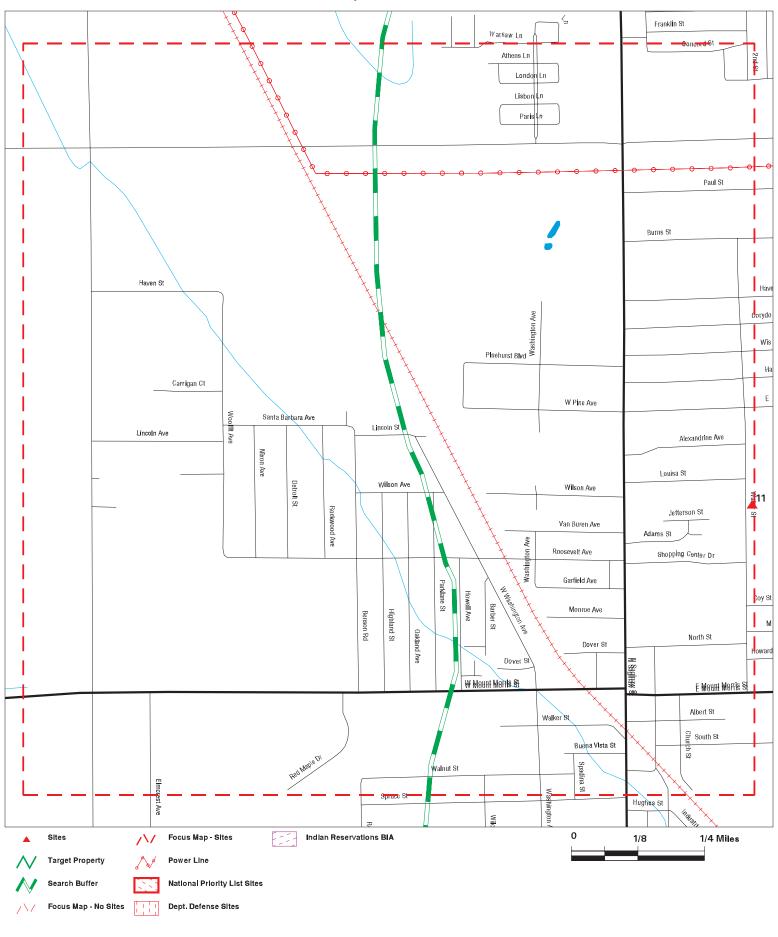
Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

 MAP ID /
 DIST (ft. & mi.)

 FOCUS MAP
 SITE NAME
 ADDRESS
 DATABASE ACRONYMS
 DIRECTION

 98 / 2
 AT&T - PINE RUN MICH
 1123 LEWIS RD
 MI LUST, MI UST, MI WDS
 1832 0.347 ENE

## Focus Map - 3 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project ADDRESS: North Dort Highway

CITY/STATE: Mount Morris MI ZIP: 48458 CLIENT: AKT Peerless Environmental Svc CONTACT: Kammie Hauger

INQUIRY#: 5779007.5s DATE: 09/06/19

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Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / DIST (ft. & mi.)
FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

110/3 MT MORRIS CONSOLIDAT 12356 WALTER ST MI LUST, MI UST, MI INVENTORY, MI Financ... 2280 0.432 WSW

## Focus Map - 4 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI

ZIP: 48458

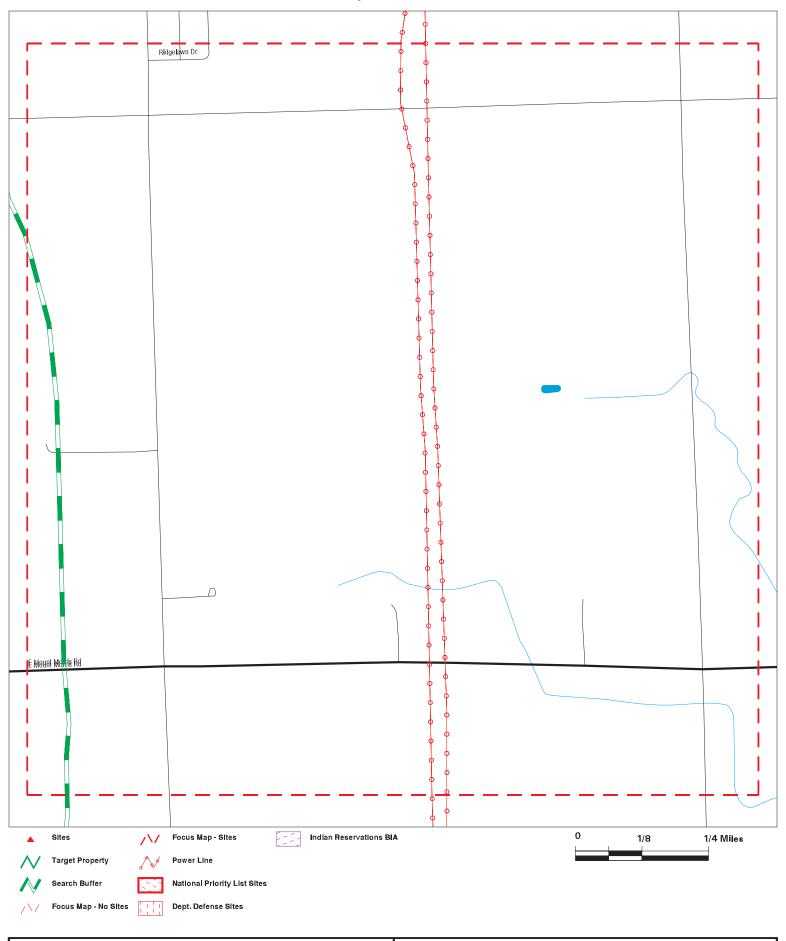
CLIENT: AKT Peerless Environmental Svc CONTACT: Kammie Hauger

CONTACT: Kammie Hauger INQUIRY#: 5779007.5s DATE: 09/06/19

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MAP ID / FOCUS MAP SITE NAME		SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION			
	62 / 4	CONSUMERS ENERGY	2014 E MT. MORRIS RO	RCRA-CESQG, FINDS, ECHO	1041	0.197	East	
	77 / 4	AMIRA ENTERPRISES LI	G8010 N DORT HWY	RCRA NonGen / NLR	1176	0.223	East	
	R79 / 4	BP PRODUCTS NORTH AM	7525 N DORT HWY	RCRA-CESQG	1219	0.231	East	
	R80 / 4	BP PRODUCTS NORTH AM	7525 N DORT HWY	MI BROWNFIELDS, MI WDS	1219	0.231	East	
	R81 / 4	FEDCHENKO SITE	7525 N DORT HWY	MI LUST, MI UST, MI INVENTORY	1219	0.231	East	
	S82 / 4	WOLVERINE FIRE PROTE	8067 N DORT HWY	RCRA-CESQG	1227	0.232	East	
	S83 / 4	WOLVERINE FIRE PROTE	8067 N DORT HWY	MIUST	1227	0.232	East	
	84 / 4	LYONS WELL DRILLING	8107 N DORT HWY	RCRA-CESQG, MI LUST, MI UST, FINDS, ECHO	1231	0.233	East	
	T87 / 4	G-8010 NORTH DORT HI	G-8010 NORTH DORT HI	MI BEA	1297	0.246	East	
	T88 / 4	MT. MORRIS EXPRESS S	8010 N DORT HWY	MI LUST, MI UST, MI INVENTORY, MI Financ	1352	0.256	East	

## Focus Map - 5 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project ADDRESS: North Dort Highway

CITY/STATE: Mount Morris MI

ZIP: 48458 AKT Peerless Environmental Svc

CLIENT: AKT Peerless En CONTACT: Kammie Hauger INQUIRY#: 5779007.5s DATE: 09/06/19

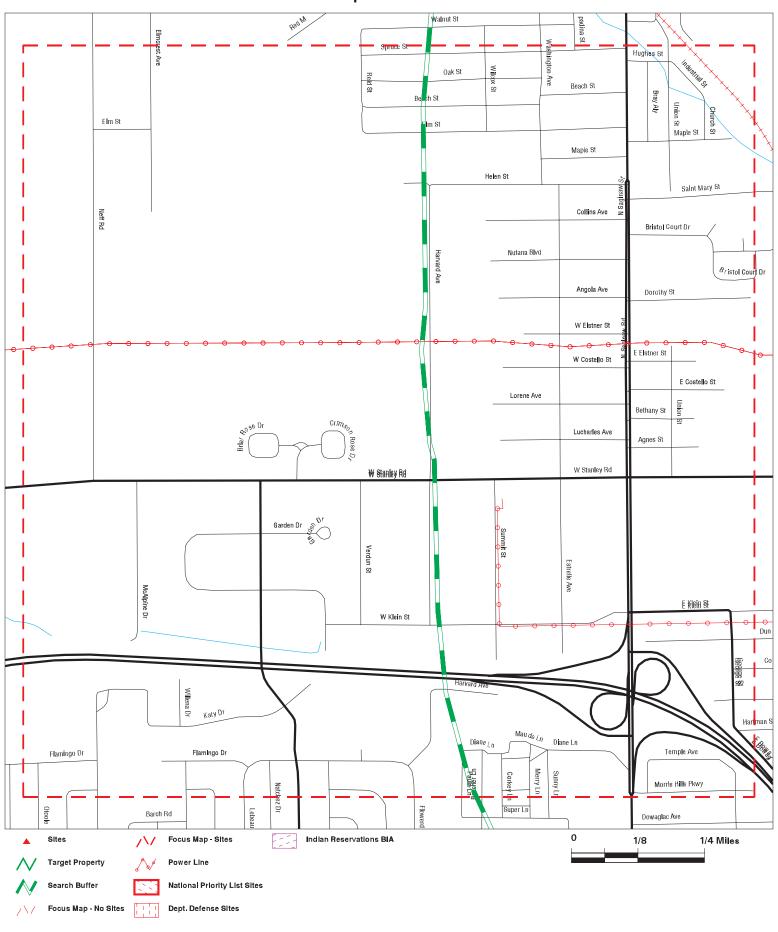
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Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

## Focus Map - 6 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI

ZIP: 48458

CLIENT: AKT Peerless Environmental Svc

CONTACT: Kammie Hauger INQUIRY#: 5779007.5s DATE: 09/06/19

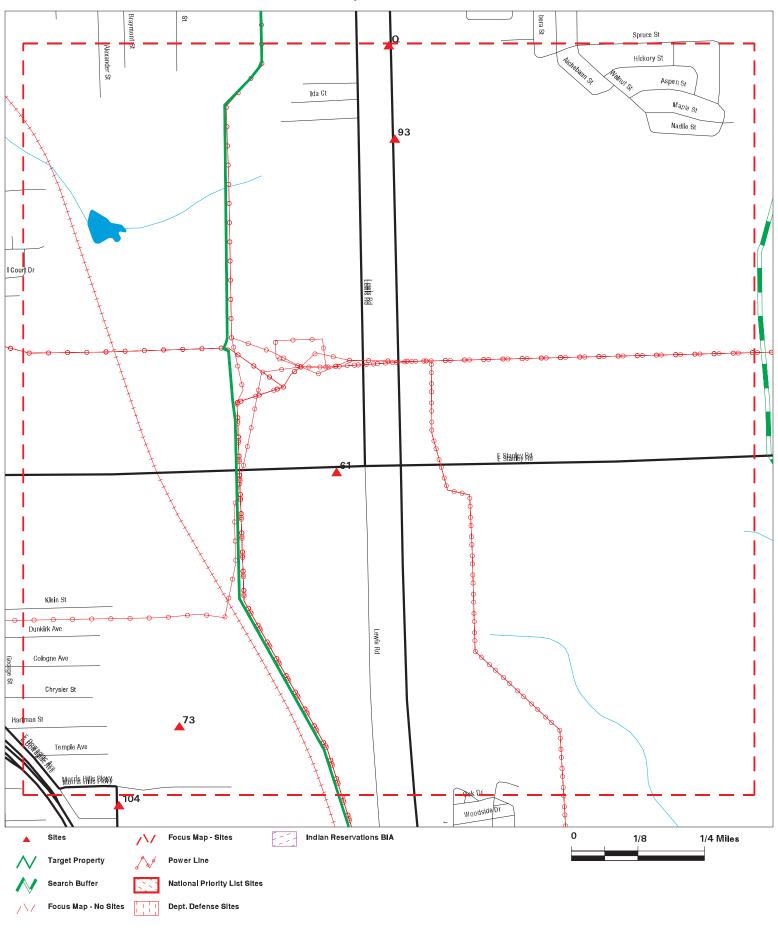
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Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

## Focus Map - 7 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI

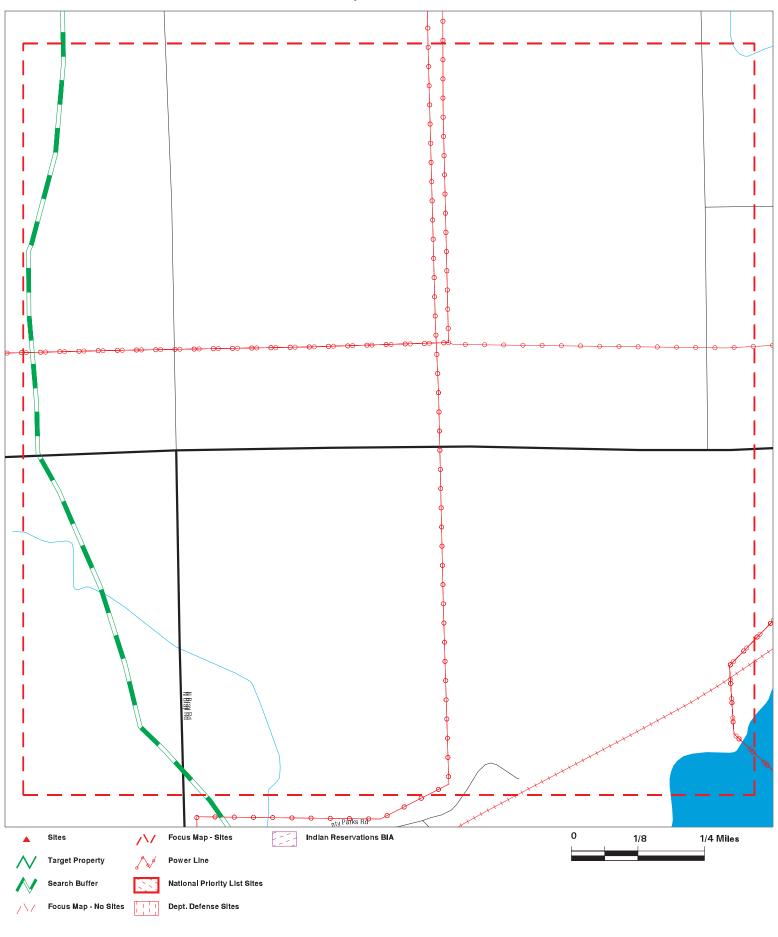
ZIP: 48458 AKT Peerless Environmental Svc

CLIENT: AKT Peerless Er CONTACT: Kammie Hauger INQUIRY#: 5779007.5s DATE: 09/06/19

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MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		DIST (ft. & mi.) DIRECTION		
61 / 7	INTERNATIONAL TRANSM	1389 E STANLEY RD	RCRA-CESQG	993	0.188	East	
73 / 7	REVITALIZING AUTO CO	1245 E COLDWATER RD	MI INVENTORY, MI PART 201, MI Financial	1141	0.216	WSW	
Q78 / 7	D AND M CYLINDERHEAD	7409 N DORT HWY	RCRA-CESQG, FINDS, ECHO	1215	0.230	East	
Q86 / 7	ARMANUS HEAVY GEAR S	7347 N DORT HWY	RCRA NonGen / NLR, FINDS, ECHO	1261	0.239	East	
93 / 7	7365 N. DORT HIGHWAY	7365 N. DORT HIGHWAY	MI BEA	1517	0.287	ESE	

## Focus Map - 8 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI

ZIP: 48458 CLIENT: AKT Peerless Er CONTACT: Kammie Hauger AKT Peerless Environmental Svc

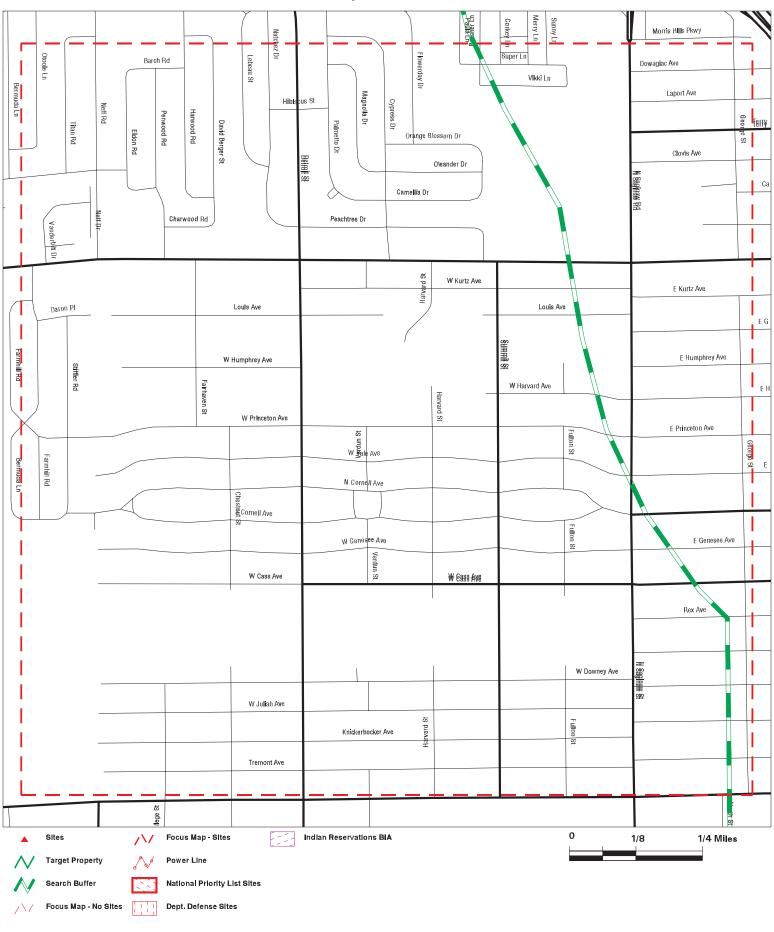
INQUIRY#: 5779007.5s DATE: 09/06/19

Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

# Focus Map - 9 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI ZIP: 48458 CLIENT: AKT Peerless Environmental Svc

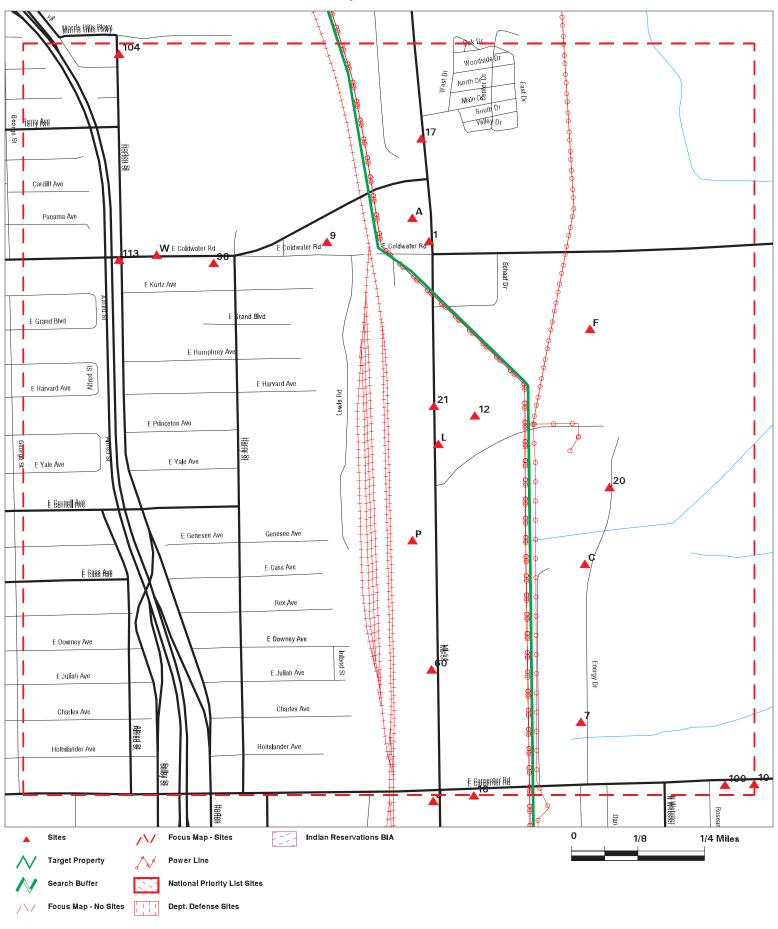
CONTACT: Kammie Hauger INQUIRY #: 5779007.5s DATE: 09/06/19

Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

# Focus Map - 10 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI

ZIP: 48458

CLIENT: AKT Peerless Environmental Svc

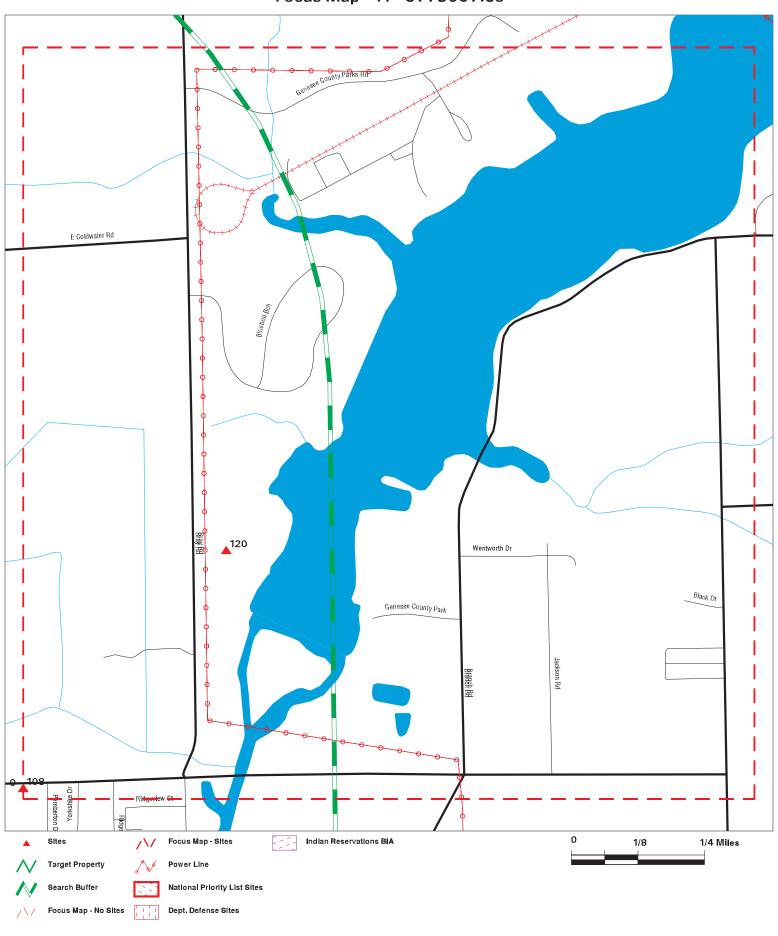
CONTACT: Kammie Hauger INQUIRY #: 5779007.5s DATE: 09/06/19

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Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		ft. & n	
1 / 10	MPLX TERMINAL LLC -	0 N DORT	MI AST	348	0.066	NE
A2 / 10	FLINT MI TERMINAL	G-6065 N DORT HWY	FINDS, FUELS PROGRAM	386	0.073	East
7 / 10	MCGILL MANUFACTURING	5061 ENERGY DR	RCRA-CESQG, FINDS, ECHO	483	0.091	East
9 / 10	1415 EAST COLDWATER	1415 E. COLDWATER RD	MI INVENTORY	490	0.093	West
A10 / 10	MPLX TERMINALS LLC -	6065 N DORT HWY	RCRA-LQG, MI LUST, MI INVENTORY, ICIS, U	496	0.094	NE
A11 / 10	MARATHON OIL CO	6065 N DORT HWY	MI UST	496	0.094	NE
12 / 10	BUCKEYE TERMINAL FLI	G5340 N DORT HWY	MI INVENTORY	530	0.100	West
C14 / 10	US SAN-TEC CORP	5225 ENERGY DR	MI UST	542	0.103	East
C15 / 10	MICHIGAN STEEL FABRI	5225 ENERGY DR	RCRA-SQG, FINDS, ECHO	542	0.103	East
17 / 10	NORTHWOODS RV COUNTR	0 N DORT	MI AST	607	0.115	East
C18 / 10	UNIVERSAL COATING IN	5204 ENERGY DR	RCRA-SQG	647	0.123	East
20 / 10	GENESEE POWER STATIO	G 5310 NORTH DORT HI	MI AST, ICIS, US AIRS	796	0.151	East
21 / 10	FLINT TERMINAL	G5340 N DORT	FINDS, FUELS PROGRAM	800	0.152	SW
F24 / 10	ACE - SAGINAW PAVING	2184 E COLDWATER RD	RCRA-CESQG, US AIRS, FINDS, ECHO	832	0.158	NE
F25 / 10	ACE ASPHALT GARAGE	2184 E COLDWATER RD	MI LUST, MI UST, MI AST	832	0.158	NE
L42 / 10	MOBIL OIL CORP	G5340 N DORT HWY	MI INVENTORY	896	0.170	West
L43 / 10	FLINT TERMINAL	0 N DORT	MI AST	897	0.170	West
L44 / 10	SUPERIOR MATERIALS L	G5300 N DORT HWY	RCRA-SQG, MI AST	898	0.170	West
60 / 10	AIRGAS INC #17	0 N DORT	MI AST	992	0.188	West
P75 / 10	RENO AUTO PARTS, INC	G-5273 N DORT HIGHWA	MI INVENTORY	1165	0.221	West
P76 / 10	G-5273 NORTH DORT HI	G-5273 NORTH DORT HI	MI INVENTORY	1165	0.221	West
96 / 10	1357 THROUGH 1373 WE	1357 THROUGH 1373 WE	MI INVENTORY	1631	0.309	West
100 / 10	POWERS CATHOLIC HIGH	2040 W CARPENTER RD	MI LUST, MI UST	1903	0.360	East
104 / 10	REALM COLDWATER RD.	6220 HORTON STREET	MI AUL	2044	0.387	WSW
W105 / 10	REVITALIZING AUTO CO	1245 E COLDWATER RD	CORRACTS, RCRA-TSDF, RCRA NonGen / NLR, .	2174	0.412	West
W106 / 10	COLDWATER ROAD LANDF	1245 E COLDWATER RD	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA	A-2174	0.412	West
W107 / 10	PEREGRINE INC	1245 E COLDWATER RD	MI LUST, MI UST	2174	0.412	West
108 / 10	NORTHWESTERN HIGH SC	2138 W CARPENTER RD	MI LUST, MI UST	2193	0.415	East
113 / 10	SUPERIOR MOTORS	1226 E COLDWATER RD	MI LUST, MI INVENTORY, MI BEA	2551	0.483	West

Focus Map - 11 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project ADDRESS: North Dort Highway

CITY/STATE: Mount Morris MI

ZIP: 48458 AKT Peerless Environmental Svc

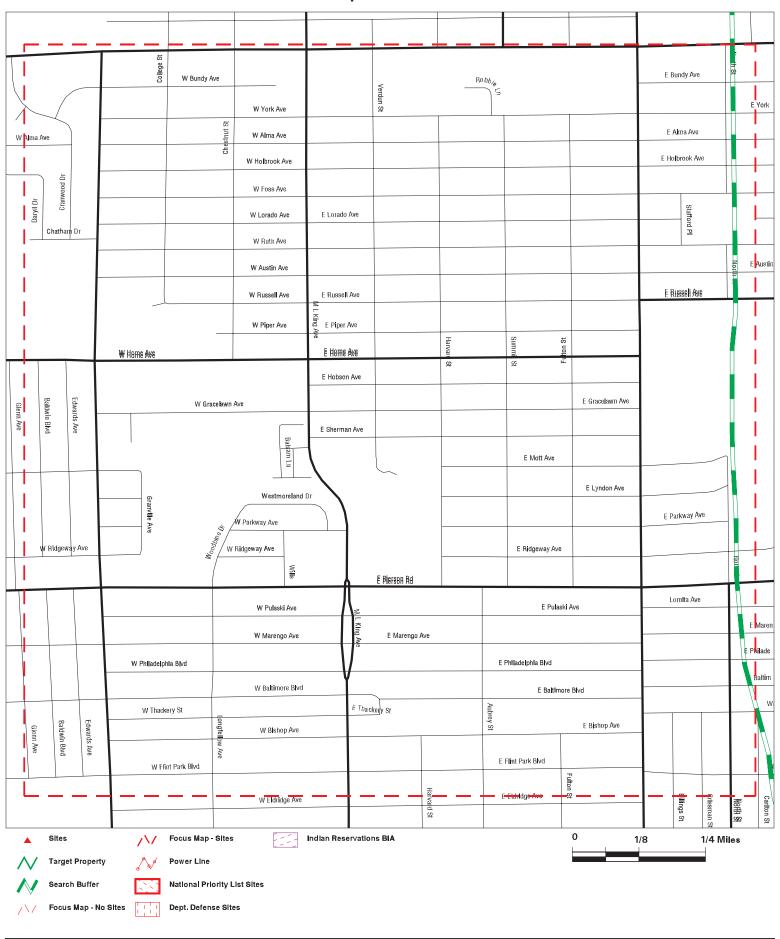
CLIENT: AKT Peerless Er CONTACT: Kammie Hauger INQUIRY#: 5779007.5s DATE: 09/06/19

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Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID /				DIST (ft. & mi.)
FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIRECTION
120 / 11	BRAY ROAD DUMP	BRAY ROAD	MI INVENTORY, MI PART 201	4233 0.802 East

# Focus Map - 12 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project ADDRESS: North Dort Highway

CITY/STATE: Mount Morris MI ZIP: 48458 CLIENT: AKT Peerless Environmental Svc CONTACT: Kammie Hauger

INQUIRY #: 5779007.5s DATE: 09/06/19

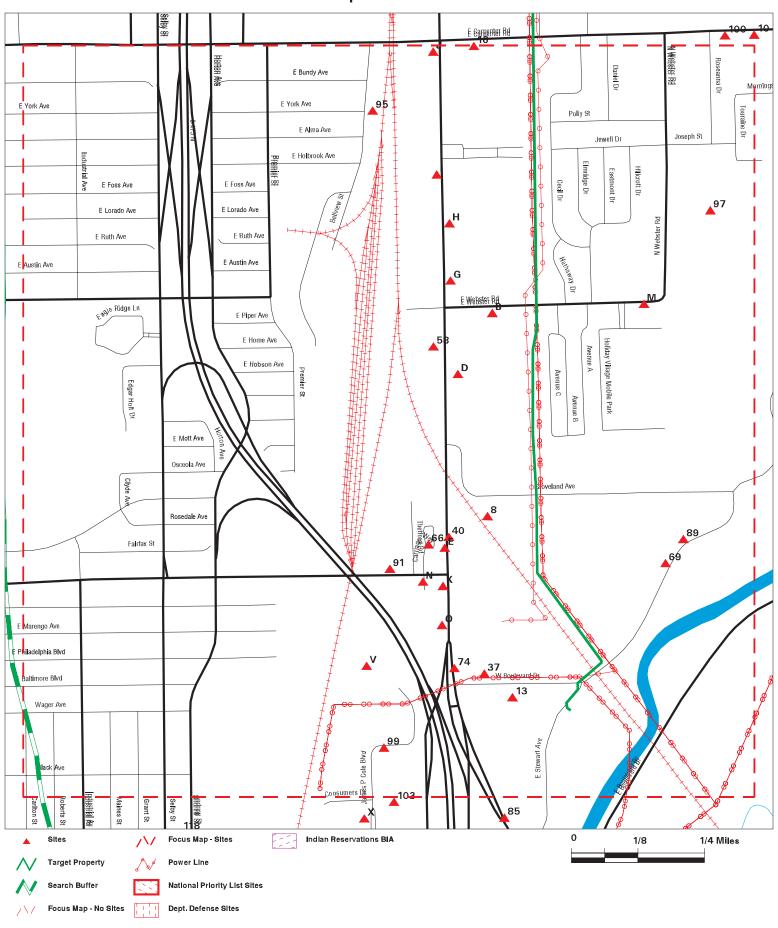
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Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

# Focus Map - 13 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

North Dort Highway ADDRESS: CITY/STATE: Mount Morris MI

ZIP: 48458 CLIENT: AKT Peerless Environmental Svc

CONTACT: Kammie Hauger INQUIRY#: 5779007.5s DATE: 09/06/19

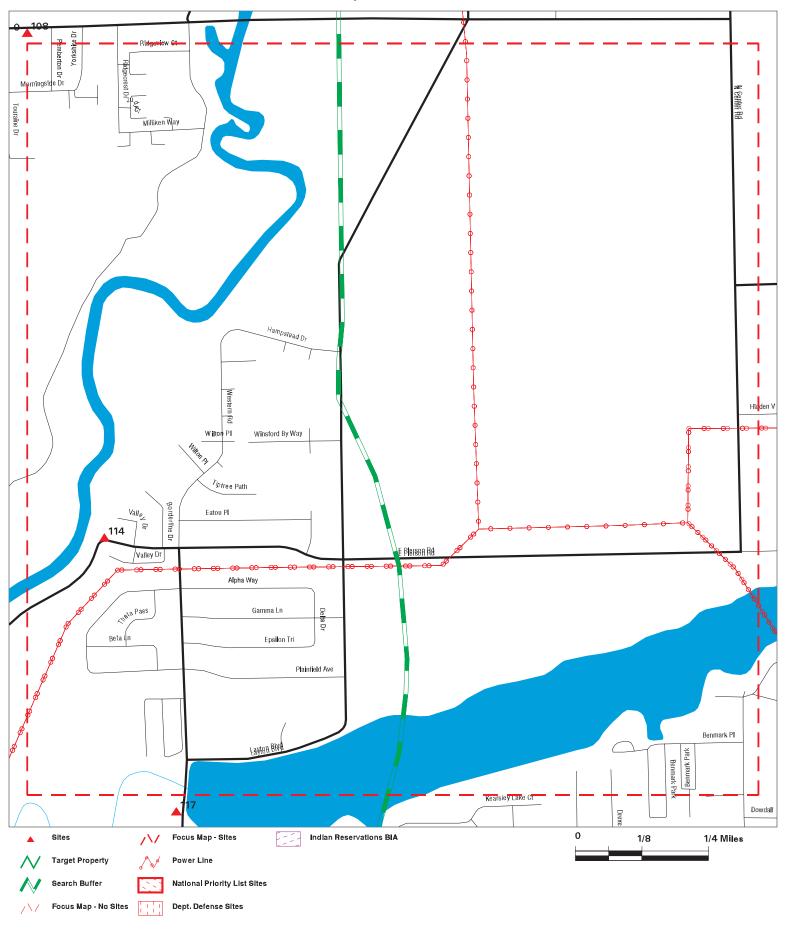
Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID /					(ft. & n	
FOCUS MAP B3 / 13	SITE NAME EMTERRA ENVIRONMENTA	ADDRESS 1606 EAST WEBSTER RO	DATABASE ACRONYMS MI BEA, MI NPDES	437	0.083	West
B4 / 13	EMTERRA ENVIRONMENTA	1606 E WEBSTER	MI AST	437	0.083	West
B5 / 13	RICHFIELD MANAGEMENT	1606 E WEBSTER RD	RCRA NonGen / NLR, FINDS, ECHO	437	0.083	West
B6 / 13	EMTERRA ENVIRONMENTA	1606 E WEBSTER RD	MI SWRCY, MI INVENTORY, MI WDS	437	0.083	West
8 / 13	YOUNGS ENVIRONMENTAL	G5305 N DORT HWY	RCRA NonGen / NLR, WI MANIFEST	487	0.092	West
13 / 13	INDUSTRIAL IRON & ME	4710 NORTH DORT HWY	MI SWRCY, MI NPDES	537	0.102	West
16 / 13	CONTINENTAL BAKING C	1510 E CARPENTER RD	MI LUST, MI UST, MI WDS	587	0.111	West
D19 / 13	RELIABLE METAL STAMP	G5522 N DORT HWY	RCRA NonGen / NLR	741	0.140	West
D22 / 13	AUBURN AUTO SALES AN	5910 N DORT HWY	RCRA NonGen / NLR	803	0.152	West
E23 / 13	MARKO METALS	5200 N. DORT HIGHWAY	MI INVENTORY	826	0.156	West
G26 / 13	GENESEE FENCE & SUPP	6226 N DORT HWY	MI LUST, MI UST, MI WDS	848	0.161	West
G27 / 13	GENESEE FENCE AND SU	6226 N DORT HWY	RCRA-CESQG, FINDS, ECHO	848	0.161	West
G28 / 13	6200 NORTH DORT HIGH	6200 NORTH DORT HIGH	MI BEA	849	0.161	West
G29 / 13	US SIGN GROUP INC	6200 N DORT HWY	RCRA-CESQG, MI LUST, MI UST, MI INVENTOR	849	0.161	West
H30 / 13	6312 NORTH DORT HIGH	6312 NORTH DORT HIGH	MI BEA	851	0.161	West
H31 / 13	HERITAGE CRYSTAL CLE	6312 N DORT HWY	RCRA NonGen / NLR, FINDS, ECHO	851	0.161	West
H32 / 13	MARTIN LEASING CO	6312 N DORT HWY	MIUST	851	0.161	West
l33 / 13	MICHIGAN FLEET REPAI	6512 N DORT HWY	RCRA-CESQG, MI LUST, MI UST, FINDS, ECHO	854	0.162	West
J34 / 13	DORT HWY. GAS & MART	7030 N DORT HWY	MI LUST, MI UST, MI INVENTORY	858	0.162	West
J35 / 13	SUNOCO INC	7030 N DORT HWY	RCRA-CESQG, FINDS, ECHO	858	0.162	West
J36 / 13	DORT HWY 200 INC	7030 NORTH DORT HIGH	MI AUL	858	0.162	West
37 / 13	5000, 5022, AND 5030	5000, 5022, AND 5030	MI INVENTORY	863	0.163	WNW
E38 / 13	KURTZ GRAVEL CO	5300 NORTH DORT HIGH	MI AUL	872	0.165	West
E39 / 13	KURTZ GRAVEL CO	5300 N DORT HWY	MI LUST, MI UST, MI INVENTORY	872	0.165	West
40 / 13	BUCKEYE TERMINALS LL	G5340 N DORT HWY	RCRA-CESQG, MI LUST, MI UST	873	0.165	West
K41 / 13	LEEMON OIL CO INC	5150 N DORT HWY	MI LUST, MI UST, MI INVENTORY, MI WDS	885	0.168	WSW
K45 / 13	PARTS DEPOT OF FLINT	5130 N DORT HWY	RCRA NonGen / NLR	908	0.172	WSW
E46 / 13		5273 NORTH DORT HIGH	MI INVENTORY	911	0.173	West
E47 / 13	GLR ADVANCED RECYCLI	5273 NORTH DORT HWY	RCRA-CESQG	911	0.173	West
E48 / 13	ROBERT S YOUNG/YOUNG	5305 N DORT HWY	MI LUST, MI UST, MI INVENTORY	912	0.173	West
E49 / 13	YOUNG'S ENVIRONMENTA	5305 N DORT HWY	MI AST	912	0.173	West
K50 / 13	5130 AND 5122 NORTH	5130 AND 5122 NORTH	MI BEA	918	0.174	WSW
I51 / 13	ENVIRONMENTAL RUBBER	6515 DORT HIGHWAY	MI SWRCY, MI NPDES	940	0.178	West
K52 / 13	RJ INDUSTRIAL	5167 N DORT HWY	RCRA-CESQG	942	0.178	West
K53 / 13	RJ INDUSTRIAL	5167 N DORT HWY	MI BEA, MI WDS	942	0.178	West
K54 / 13	PHOTIOU	5145 NORTH DORT HIGH	SEMS	963	0.182	West
K55 / 13	5145 NORTH DORT HIGH	5145 N DORT HWY , 14	US BROWNFIELDS	963	0.182	West
156 / 13	ENVIRONMENTAL RUBBER	6515 NORTH DORT HIGH	MI SWRCY, MI WDS	970	0.184	West
M57 / 13	MICHIGAN STATE POLIC	1806 E WEBSTER RD	RCRA NonGen / NLR	982	0.186	East

Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		(ft. & m	ni.)
58 / 13	MARATHON ASHLAND FLI	G-6065 N. DORT HIGHW	MI INVENTORY, MI PART 201	984	0.186	West
J59 / 13	TRANS MANIA	7045 N DORT HWY	RCRA NonGen / NLR, FINDS, ECHO	990	0.188	West
N63 / 13	G-5135, G-5145 & G-5	G-5135, G-5145 & G-5	MI INVENTORY	1051	0.199	West
M64 / 13	WEBSTER ROAD LANDFIL	1850 E WEBSTER RD SI	MI HIST LF	1067	0.202	East
O65 / 13	GENESEE RECYCLING (F	5107 NORTH DORT HIGH	MI SWRCY, MI SPILLS	1071	0.203	WSW
66 / 13	JET AUTO REPAIR IC	5201 N DORT HWY	RCRA NonGen / NLR	1075	0.204	West
O67 / 13	RESOURCE RECOVERY OF	5125 N DORT HWY	MI SWF/LF, MI Financial Assurance, MI WD	1075	0.204	WSW
O68 / 13	SPOONER METALS, LLC	5032 N DORT HIGHWAY	MI SWRCY, MI AIRS, MI WDS	1077	0.204	SW
69 / 13	MI DEPT/NATURAL RESO	5135 W BLVD DR	RCRA NonGen / NLR	1085	0.205	NE
O70 / 13	NATIONAL WELDING SUP	5075 N DORT HWY	MI UST	1088	0.206	WSW
N71 / 13	DIAMOND BATTERIES	4617 THETFORD	RCRA NonGen / NLR	1101	0.209	West
N72 / 13	4302 JAMES P. COLE B	4302 JAMES P. COLE B	MI INVENTORY	1135	0.215	West
74 / 13	SPOONER METALS, INC.	5022 N. DORT HIGHWAY	MI HIST LF, MI PART 201, MI INVENTORY	1162	0.220	WNW
89 / 13	MI DEPT/NATURAL RESO	5201 W BOULEVARD DR	MI BROWNFIELDS, MI PART 201, MI INVENTOR	1367	0.259	NE
91 / 13	FOUR M MFG GROUP OF	1409 E PIERSON RD	MI LUST, MI UST, MI INVENTORY, MI WDS	1460	0.277	West
95 / 13	CSX RAILROAD, CARPEN	1420 CARPENTER RD	MI INVENTORY	1598	0.303	West
97 / 13	FLINT, CITY OF, WEBS	WEBSTER ROAD	MI INVENTORY	1736	0.329	East
99 / 13	LOCKHART CHEMICAL CO	4302 JAMES P COLE BL	MI PART 201, MI INVENTORY, MI AIRS, MI B	1856	0.352	WSW
V101 / 13	KIMES CORP	4701 THETFORD RD	MI LUST, MI UST, MI INVENTORY	1924	0.364	WSW
V102 / 13	ESTECH OIL CO	4701 THETFORD ST	SEMS-ARCHIVE, RCRA NonGen / NLR	1924	0.364	WSW

# Focus Map - 14 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI

ZIP: 48458 AKT Peerless Environmental Svc

CLIENT: AKT Peerless Er CONTACT: Kammie Hauger INQUIRY#: 5779007.5s DATE: 09/06/19

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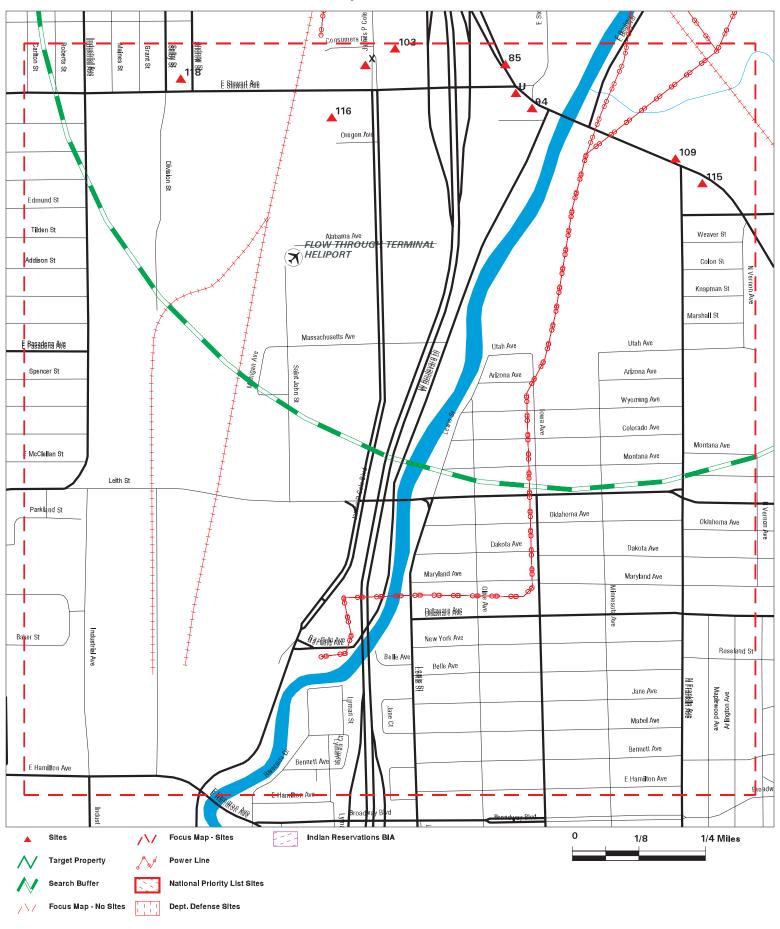
Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

 MAP ID /
 DIST (ft. & mi.)

 FOCUS MAP
 SITE NAME
 ADDRESS
 DATABASE ACRONYMS
 DIRECTION

 114 / 14
 MOBIL OIL
 2427 PIERSON & CLIO
 MI LUST, MI UST, MI INVENTORY
 2579
 0.488
 ENE

# Focus Map - 15 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project

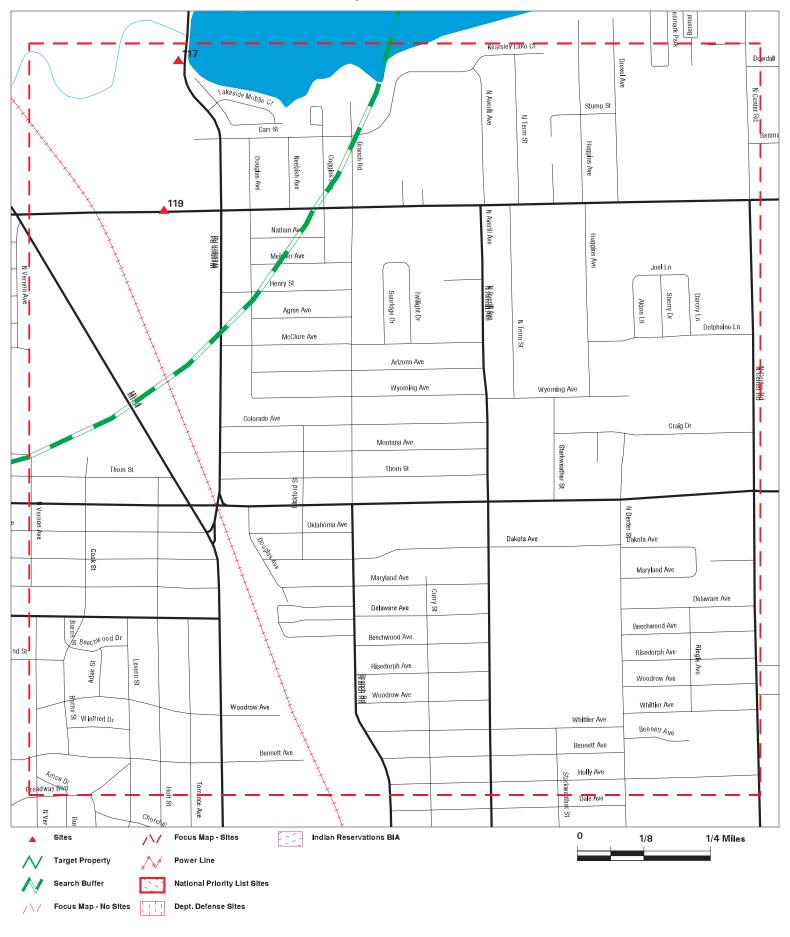
ADDRESS: North Dort Highway CITY/STATE: Mount Morris MI ZIP: 48458 CLIENT: AKT Peerless Environmental Svc

CONTACT: Kammie Hauger INQUIRY#: 5779007.5s DATE: 09/06/19

Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		(ft. & m CTION	i.)
85 / 15	FLINT WATER PLANT AN	4500 N DORT HWY	MI LUST, MI UST, FTTS, HIST FTTS, MI AIR	1248	0.236	SSW
U90 / 15	BITUMINOUS PAVERS, I	4101 S DORT HWY	MI LUST, MI UST	1456	0.276	SSW
U92 / 15	PRINCE SINGH LLC	4111 N DORT HWY	MI LUST, MI UST, MI INVENTORY, MI Financ	1508	0.286	SSW
94 / 15	CSX TRANSPORTATION I	4173 S DORT	MI LUST, MI UST, MI WDS	1548	0.293	SSW
103 / 15	UNIVERSAL SYSTEMS	1401 E STEWART AVE	MI LUST, MI UST, MI WDS	1951	0.370	WSW
109 / 15	FLINT WOOD MATERIALS	4060 1/2 N DORT HWY	MI HIST LF	2247	0.426	SSE
X111 / 15		4221 JAMES P COLE BO	MI INVENTORY	2288	0.433	WSW
X112 / 15	FLINT COATINGS INC	4221 JAMES P COLE	MI BEA, MI WDS	2288	0.433	WSW
115 / 15	CUT-RATE FUEL CO	4043 N DORT HWY	MI LUST, MI UST, MI WDS	2591	0.491	SSE
116 / 15	SE CORNER STEWART/J.	SE CORNER STEWART/J.	MI INVENTORY, MI PART 201	2843	0.538	SW
118 / 15	PRO-MET PLATING	1117 & 1109 EAST STE	MI BROWNFIELDS, MI PART 201, MI INVENTOR	4030	0.763	WSW

# Focus Map - 16 - 5779007.5s



SITE NAME: Flint Secondary Water Supply Project ADDRESS: North Dort Highway

CITY/STATE: Mount Morris MI ZIP: 48458 CLIENT: AKT Peerless Environmental Svc

CONTACT: Kammie Hauger INQUIRY #: 5779007.5s DATE: 09/06/19

Target Property: NORTH DORT HIGHWAY MOUNT MORRIS, MI 48458

MAP ID /				DIST (ft. & mi.)
FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIRECTION
117 / 16	ZACK CO/DEMO DUMP (F	4401 WESTERN ROAD	MI PART 201, MI INVENTORY, MI BEA, MI WD	3345 0.634 ESE
119 / 16	2601-2603 RICHFIELD	2601-2603 RICHFIELD	MI PART 201, MI INVENTORY, MI BEA	4030 0.763 SE

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

MPLX TERMINAL LLC - FLINT TERMINAL MI AST A100415586 N/A

ΝE **0 N DORT** 

**MOUNT MORRIS, MI 48458** < 1/8

0.066 mi. 348 ft.

Actual: AST:

787 ft. Facility ID: 91025012 (810) 785-0841

Facility Phone: Focus Map: Owner Name: 10

MPLX TERMINAL LLC - FLINT TERMINAL

Owner Address: 539 S MAIN ST (TT&R - HES&S)

Owner City, St, Zip: FINDLAY, OH 48458

Owner County: Not reported Not reported Owner Contact: 4194222121 Owner Telephone:

District:

Contact: Charles Bradley List Status: Not reported Date of Collection: 01/11/2001 Accuracy: 100 FEET

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

**Description Category:** Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Horizontal Datum: NAD83 Latitude: 43.0907910 Longitude: -83.674611

Tank Id: ATK-065913-15 Tank Status: Currently In Use

6006 Capacity (in gallons): Installation Date: 10/25/1996 Substance Stored: Other Removed/Closed Date: Not reported

Tank Id: ATK-022485-15 Tank Status: Currently In Use Capacity (in gallons): 120000 Installation Date: 01/03/1996 Substance Stored: Other Removed/Closed Date: Not reported

Tank Id: ATK-073286-15 Tank Status: Removed from Premises

Capacity (in gallons): 15182 Installation Date: 01/01/1959 Substance Stored: Other Removed/Closed Date: 04/01/1992

Tank Id: ATK-082749-15 Tank Status: Removed from Premises

Capacity (in gallons): 66946 Installation Date: 01/01/1959 Substance Stored: Other Removed/Closed Date: 03/10/1995 **EDR ID Number** 

Direction Distance Elevation

on Site Database(s) EPA ID Number

## MPLX TERMINAL LLC - FLINT TERMINAL (Continued)

A100415586

**EDR ID Number** 

Tank Id: ATK-123487-15
Tank Status: Currently In Use
Capacity (in gallons): 29600
Installation Date: 12/07/2006
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-077237-15
Tank Status: Currently In Use

Capacity (in gallons): 8000
Installation Date: 06/15/1995
Substance Stored: Other
Removed/Closed Date: Not reported

Tank ld: ATK-073292-15

Tank Status: Removed from Premises

Capacity (in gallons): 999390
Installation Date: 01/01/1959
Substance Stored: Other
Removed/Closed Date: 04/01/1992

Tank Id: ATK-073281-15

Tank Status: Removed from Premises

Capacity (in gallons): 14804 Installation Date: 01/01/1980 Substance Stored: Other Removed/Closed Date: 04/01/1992

Tank Id: ATK-120018-15
Tank Status: Currently In Use

Capacity (in gallons): 30000
Installation Date: 08/13/2004
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-120017-15
Tank Status: Currently In Use

Capacity (in gallons): 30000
Installation Date: 08/13/2004
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-108078-15
Tank Status: Currently In Use
Capacity (in gallons): 936306
Installation Date: 01/01/1959
Substance Stored: Other
Removed/Closed Date: Not reported

Tank ld: ATK-097828-15

Direction
Distance
Elevation

Site Database(s) EPA ID Number

## MPLX TERMINAL LLC - FLINT TERMINAL (Continued)

A100415586

**EDR ID Number** 

Tank Status: Currently In Use
Capacity (in gallons): 14364
Installation Date: 10/25/1996
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-079007-15
Tank Status: Currently In Use

Capacity (in gallons): 2000
Installation Date: 01/03/1996
Substance Stored: Mixture
Removed/Closed Date: Not reported

Tank Id: ATK-006782-15
Tank Status: Currently In Use
Capacity (in gallons): 148448
Installation Date: 01/01/1979
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-123486-15
Tank Status: Currently In Use
Capacity (in gallons): 29600
Installation Date: 12/07/2006
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-120016-15
Tank Status: Currently In Use
Capacity (in gallons): 30000

Installation Date: 08/13/2004
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-070837-15
Tank Status: Currently In Use
Capacity (in gallons): 878094
Installation Date: 10/25/1996
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-070843-15
Tank Status: Currently In Use
Capacity (in gallons): 760200
Installation Date: 01/01/1959
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-038103-15

Tank Status: Removed from Premises

Direction Distance

Elevation Site Database(s) EPA ID Number

## MPLX TERMINAL LLC - FLINT TERMINAL (Continued)

A100415586

**EDR ID Number** 

Capacity (in gallons): 905184
Installation Date: 01/01/1959
Substance Stored: Other
Removed/Closed Date: 10/25/1996

Tank Id: ATK-003794-15
Tank Status: Removed from Premises

Capacity (in gallons): 812364
Installation Date: 01/01/1978
Substance Stored: Other
Removed/Closed Date: 10/25/1996

Tank Id: ATK-123485-15
Tank Status: Currently In Use

Capacity (in gallons): 29600
Installation Date: 12/07/2006
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-065918-15
Tank Status: Currently In Use
Capacity (in gallons): 6006
Installation Date: 10/25/1996
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-072682-15
Tank Status: Currently In Use

Capacity (in gallons): 10000
Installation Date: 06/15/1995
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-079000-15
Tank Status: Removed from Premises

Capacity (in gallons): 20286
Installation Date: 01/01/1976
Substance Stored: Other
Removed/Closed Date: 10/25/1996

A2 FLINT MI TERMINAL FINDS 1016157078
East G-6065 N DORT HWY FUELS PROGRAM N/A

< 1/8 0.073 mi.

386 ft. Site 1 of 3 in cluster A

MT MORRIS, MI 48458

Actual: FINDS:

788 ft.

Focus Map: Registry ID: 110070242723

10

Environmental Interest/Information System

GASOLINE AND DIESEL PRODUCERS

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **FLINT MI TERMINAL (Continued)**

1016157078

#### ETHANOL FACILITY/GASOLINE AND DIESEL PRODUCERS

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

FUELS PROGRAM:

Program Type: Gasoline, Renewable Fuel Standard, Diesel

Company Seq. ID: 4268

**Business Activity:** Non-Renewable Fuels Importer, PADD Importer, Refiner, Oxygenate

Blender, Renewable Fuels Importer, PADD Importer (Renewable Fuel Importer), Mobile Facility, Pipeline/Pass-Through Terminal, Truck

Loading Terminal/Locomotive Marker Facility

Company Name: MARATHON PETROLEUM COMPANY LP

Company Address: 539 SOUTH MAIN STREET

FINDLAY, OH 45840

Facility ID: 81127

Facility Type: Diesel/Biodiesel

Facility Activity: Truck Loading Terminal/Locomotive Marker Facility

Subject to 80.1403: Not reported

Fuel Only For Off Road: Yes

Fuel Created: Not reported D Code: Not reported

OTAQ Program ID: OTAQREG10028427

Program Type: Gasoline Company Seq. ID: 6396

**Business Activity:** Oxygenate Blender Company Name: MPLX Terminals LLC Company Address: 539 South Main Street

Findlay, OH 45840

Facility ID: 21585 Facility Type: Gas/Ethanol Facility Activity: Oxygenate Blender Subject to 80.1403: Not reported

Fuel Only For Off Road: Yes

Fuel Created: Not reported D Code: Not reported

OTAQREG10029149 OTAQ Program ID:

В3 S108960139 **EMTERRA ENVIRONMENTAL USA** MI BEA 1606 EAST WEBSTER ROAD West **MI NPDES** N/A

FLINT, MI 48505 < 1/8

0.083 mi.

Site 1 of 4 in cluster B 437 ft.

Actual: BEA:

752 ft. Secondary Address: Not reported BEA Number: 1790 Focus Map: 13

District: Lansing Date Received: 12/21/2012

Submitter Name: Emterra Environmental USA

Petition Determination: No Request

Petition Disclosure:

Category: Not reported Determination 20107A: No Request

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **EMTERRA ENVIRONMENTAL USA (Continued)**

S108960139

Reviewer: innesi RRD Division Assigned:

MI NPDES:

Permit Number: MIS510691

Permitee PO Box:

Permitee Email: angelo.caramagno@emterrausa.com

05/05/2015 Issue Date: Effective Date: 05/05/2015 **Expiration Date:** 04/01/2020

Permittee Name: **Emterra Real Estate Corporation** Permittee Address: 1606 East Webster Road

Permittee Addr2: Not reported Permittee City, St, Zip: Flint, MI 48505

Permit Type: NPDES Certificate of Coverage under General Permit (COC)

Facility Name 2: Not reported Facility Name 3: Not reported Facility Name 4: Not reported

Designed Name: Emterra Environmental USA

Latitude: 43.06832 Lat Direction: N Lat Type Code: LAT Longitude: -83.6724 Lon Direction: Lon Type Code: LON Hydrologic Unit Code: 4080204 Permit Status: In Effect

COC Permit Category: SW-Industrial CY5

DEQ District Email: Lansing DEQ Permit Compliance Manager: Brian Zuber

DEQ Permit Compliance Manager Email: zuberb@michigan.gov

В4

**EMTERRA ENVIRONMENTAL USA** MI AST A100318357 1606 E WEBSTER N/A

West < 1/8 FLINT, MI 48505

0.083 mi.

Site 2 of 4 in cluster B 437 ft.

Actual: AST:

752 ft. Facility ID: 91084855 Facility Phone: (877) 609-6753 Focus Map:

13

Owner Name: EMTERRA ENVIRONMENTAL USA 1606 E WEBSTER RD

Owner Address: Owner City,St,Zip: FLINT, MI 48505 Owner County: Not reported Owner Contact: Not reported Owner Telephone: 8103961201

District:

Contact: Fred Vezzetti List Status: Not reported Date of Collection: 12/30/2014 **METERS** Accuracy:

Source: STATE OF MICHIGAN

**POINT** Point Line Area: **Description Category:** Not reported

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Horizontal Datum: NAD83

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**EMTERRA ENVIRONMENTAL USA (Continued)** 

Latitude: 43.0682880 Longitude: -83.672411

Tank Id: ATK-123670-15 Tank Status: Currently In Use

Capacity (in gallons): 12000 Installation Date: 12/10/2007 Substance Stored: Diesel Removed/Closed Date: Not reported

В5 **RICHFIELD MANAGEMENT LLC** RCRA NonGen / NLR 1000466137

West 1606 E WEBSTER RD **FINDS** MID985608637

< 1/8 FLINT, MI 48505 **ECHO** 

0.083 mi.

437 ft. Site 3 of 4 in cluster B Actual: RCRA NonGen / NLR:

752 ft. Date form received by agency: 12/31/2002

Facility name: RICHFIELD MANAGEMENT LLC Focus Map:

Facility address: 1606 E WEBSTER RD

FLINT. MI 48505

EPA ID: MID985608637 Contact: KIM SCHOCH Contact address: 1606 E WEBSTER RD

FLINT, MI 48505

Contact country: US

Contact telephone: 313-789-4000 Contact email: Not reported

EPA Region: 05

Classification: Non-Generator

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

Owner/Operator Summary:

Owner/Op end date:

NO ACTIVE O/OP AS NOT GENERATING WASTE Owner/operator name:

Owner/operator address: Not reported

Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Operator Owner/Operator Type: Owner/Op start date: 01/01/2002

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 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 01/01/2002

A100318357

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## RICHFIELD MANAGEMENT LLC (Continued)

1000466137

Handler Activities Summary:

Owner/Op end date:

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

**Historical Generators:** 

Date form received by agency: 03/11/1991

RICHFIELD MANAGEMENT LLC Site name: Classification: **Small Quantity Generator** 

Not reported

Hazardous Waste Summary:

Waste code: D001

Waste name: **IGNITABLE WASTE** 

Violation Status: No violations found

FINDS:

Registry ID: 110003654527

Environmental Interest/Information System

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.

Click this hyperlink while viewing on your computer to access

additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000466137 Registry ID: 110003654527

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003654527

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**B6 EMTERRA ENVIRONMENTAL USA CORP** MI SWRCY S111939461 West

1606 E WEBSTER RD MI INVENTORY N/A

FLINT, MI 48505 MI WDS < 1/8

0.083 mi.

437 ft. Site 4 of 4 in cluster B

SWRCY: Actual: 752 ft. SR No:

Contact Phone1: 877-609-6753 Focus Map: EMail: Not reported

> Website: http://www.emterrausa.com/

138

Location Description: 558 miles away

Materials Accepted: Brown Paper Bags, Clear Glass, Computer Paper, HDPE (2), High Grade

Paper, Junk Mail, LDPE (4), Magazines, Mixed Office Paper,

OCC/Corrugated Containers, Office Paper Recycling Services, ONP, Paperboard, PET/PETE (1), Polypropylene (5), Polystyrene (6-Expanded), Telephone Books, Green Glass, Pallets, Grass, Leaves, Sawdust, Tires, Rubber, Demolition Materials, Construction Materials, Demolition Debris, Bark, Light Bulbs, Books, Concrete/Asphalt, Salvaged Architecture, Trees / Stumps, Plastic Drums and Barrels, Asphalt Shingles, Scrap Lumber, Brown Glass, Glass Window, Fluorescent

Lights, Polystyrene (Non-Expanded #6)

Services: Curbside Collector, Rolloff, Commercial Hauler

Collection: Pick up

Service Area: Genesee County, Huron County, Lapeer County, Oakland County, Saginaw

County, St. Clair County, Shiawassee County, Tuscola County, Sanilac,

Tuscola

Notes: Not reported Hours of Operation: Not reported Hazerdous Waste: Not reported E Scrap: Not reported Not reported Other:

SWRCY:

SR No 2: 138

Material: Paper - Computer Paper

Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

Service Area: GRATIOT, ST. CLAIR

SR No 2: 138

Material: Paper - High Grade Paper

Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

GRATIOT, ST. CLAIR Service Area:

SR No 2: 138

Paper - Junk Mail Material:

Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

GRATIOT, ST. CLAIR Service Area:

SR No 2:

Material: Paper - Magazines

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **EMTERRA ENVIRONMENTAL USA CORP (Continued)**

S111939461

Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

GRATIOT, ST. CLAIR Service Area:

SR No 2: 138

Material: Paper - Mixed Office Paper

Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

GRATIOT, ST. CLAIR Service Area:

INVENTORY:

201201790LA Bea Number: Township: Flint District: Lansing Data Source: BEA Not reported Latitude:

Longitude: Not reported

WDS:

MID985608637 Site Id:

WMD Id: 404755

Site Specific Name: EMTERRA ENVIRONMENTAL USA CORP

Mailing Address: 1606 E WEBSTER RD

Mailing City/State/Zip: 48505 Mailing County: **GENESEE** 

RCRA-CESQG 7 MCGILL MANUFACTURING CO 1000254354 **5061 ENERGY DR FINDS** MID982220303 **East** 

< 1/8 0.091 mi.

483 ft.

Actual: RCRA-CESQG:

FLINT, MI 48505

750 ft. Date form received by agency: 12/31/2003

Facility name: MCGILL MANUFACTURING CO Focus Map: 5061 ENERGY DR

Facility address:

FLINT, MI 48505 EPA ID: MID982220303

Contact: JOHN GALLOWAY Contact address: 5061 ENERGY DR FLINT, MI 48505

Contact country: US

Contact telephone: 810-787-2813 Contact email: Not reported

EPA Region:

Conditionally Exempt Small Quantity Generator Classification:

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

**ECHO** 

Distance Elevation

Site Database(s) EPA ID Number

## MCGILL MANUFACTURING CO (Continued)

1000254354

**EDR ID Number** 

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: GALLOWAY JOHN J

Owner/operator address:
Not reported
Not reported
Owner/operator country:
Not reported
Owner/operator telephone:
Owner/operator email:
Not reported
Owner/operator fax:
Not reported
Owner/operator extension:
Not reported

Owner/operator extension:
Legal status:
Owner/Operator Type:
Owner
Owner/Op start date:
Owner/Op end date:
Not reported
Not reported

Owner/operator name: GALLOWAY JOHN J

Owner/operator address: Not reported

Not reported Not reported

Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/01/1970 Owner/Op end date: Not reported

#### Handler Activities Summary:

Owner/operator country:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: Nο 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

#### Historical Generators:

Date form received by agency: 11/20/2002

Site name: MCGILL MANUFACTURING CO

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

MCGILL MANUFACTURING CO (Continued)

1000254354

Classification: Small Quantity Generator

Date form received by agency: 11/12/1987

MCGILL MANUFACTURING CO Site name: Classification: **Small Quantity Generator** 

Hazardous Waste Summary:

Waste code: D001

Waste name: **IGNITABLE WASTE** 

Violation Status: No violations found

FINDS:

Registry ID: 110003628584

Environmental Interest/Information System

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.

Click this hyperlink while viewing on your computer to access

additional FINDS: detail in the EDR Site Report.

ECHO:

1000254354 Envid: Registry ID: 110003628584

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003628584

YOUNGS ENVIRONMENTAL CLEANUP INC West

**G5305 N DORT HWY** 

**FLINT, MI 48505** 

0.092 mi. 487 ft.

< 1/8

Actual: RCRA NonGen / NLR:

747 ft. Date form received by agency: 08/21/2007

YOUNGS ENVIRONMENTAL CLEANUP INC Facility name: Focus Map:

Facility address: G5305 N DORT HWY 13

FLINT, MI 48505 EPA ID: MID106869506 Contact: KRIS THIEL

Contact address: G5305 N DORT HWY

FLINT, MI 48505

Contact country:

810-789-7155 Contact telephone: Contact email: Not reported EPA Region: 05

Land type: Private Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste 1000315320

MID106869506

RCRA NonGen / NLR

**WI MANIFEST** 

Direction Distance Elevation

n Site Database(s) EPA ID Number

## YOUNGS ENVIRONMENTAL CLEANUP INC (Continued)

1000315320

**EDR ID Number** 

Owner/Operator Summary:

Owner/operator name: YOUNG ROBERT Owner/operator address: Not reported

Owner/operator country: Not reported
Owner/operator celephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator

Owner/Operator Type: Operator
Owner/Op start date: 02/15/1979
Owner/Op end date: Not reported

Owner/operator name: YOUNG ROBERT Owner/operator address: Not reported

wner/operator address: Not reported
Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 02/15/1979 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: Yes 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: Yes

## Historical Generators:

Date form received by agency: 10/13/2005

Site name: YOUNGS ENVIRONMENTAL CLEANUP INC

Classification: Not a generator, verified

Date form received by agency: 07/31/2003

Site name: YOUNGS ENVIRONMENTAL CLEANUP INC Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/05/2001

Site name: YOUNGS ENVIRONMENTAL CLEANUP INC Classification: Conditionally Exempt Small Quantity Generator

Map ID MAP FINDINGS
Direction

Distance Elevation

on Site Database(s) EPA ID Number

## YOUNGS ENVIRONMENTAL CLEANUP INC (Continued)

1000315320

**EDR ID Number** 

Date form received by agency: 09/27/1995

Site name: YOUNGS ENVIRONMENTAL CLEANUP INC Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 05/19/1989

Site name: YOUNGS ENVIRONMENTAL CLEANUP INC Classification: Conditionally Exempt Small Quantity Generator

## Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Facility Has Received Notices of Violations:

Regulation violated:

Not reported

Area of violation: State Statute or Regulation

Date violation determined: 09/28/2016
Date achieved compliance: 10/28/2016

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/28/2016
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: State Statute or Regulation

Date violation determined: 09/28/2016
Date achieved compliance: 10/28/2016
Violation lead agency: State

Enforcement action: VERBAL INFORMAL

Enforcement action date: 09/28/2016
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: State Statute or Regulation

Date violation determined: 02/24/2014
Date achieved compliance: 03/03/2014
Violation lead agency: State

Enforcement action: VERBAL INFORMAL

Enforcement action date: 02/24/2014
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

Map ID MAP FINDINGS
Direction

Direction Distance Elevation

on Site Database(s) EPA ID Number

## YOUNGS ENVIRONMENTAL CLEANUP INC (Continued)

Not reported

Area of violation: State Statute or Regulation
Date violation determined: 09/30/2008

Date achieved compliance: 05/22/2009 Violation lead agency: State

Regulation violated:

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 10/02/2008
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: Transporters - General

Date violation determined: 09/30/2008
Date achieved compliance: 05/22/2009
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 10/02/2008
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: Transporters - General

Date violation determined: 09/07/2005
Date achieved compliance: 10/24/2005
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/20/2005
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

Area of violation: Transporters - Manifest and Recordkeeping

Date violation determined: 09/07/2004
Date achieved compliance: 10/20/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/08/2004
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

**EDR ID Number** 

1000315320

Direction Distance Elevation

evation Site Database(s) EPA ID Number

## YOUNGS ENVIRONMENTAL CLEANUP INC (Continued)

1000315320

**EDR ID Number** 

Area of violation: Transporters - General

Date violation determined: 09/07/2004
Date achieved compliance: 10/20/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/08/2004
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: Transporters - General

Date violation determined: 12/05/1996
Date achieved compliance: 03/17/1997
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 12/05/1996
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: Transporters - General

Date violation determined: 07/05/1995
Date achieved compliance: 03/17/1997
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/05/1995
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: Transporters - General

Date violation determined: 06/30/1994
Date achieved compliance: 10/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/30/1994
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

**Evaluation Action Summary:** 

Evaluation date: 09/28/2016

Direction Distance

Elevation Site Database(s) EPA ID Number

## YOUNGS ENVIRONMENTAL CLEANUP INC (Continued)

1000315320

**EDR ID Number** 

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: State Statute or Regulation

Date achieved compliance: 10/28/2016 Evaluation lead agency: State

Evaluation date: 06/25/2014

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/24/2014

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: State Statute or Regulation

Date achieved compliance: 03/03/2014 Evaluation lead agency: State

Evaluation date: 08/06/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/30/2008

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: State Statute or Regulation

Date achieved compliance: 05/22/2009 Evaluation lead agency: State

Evaluation date: 09/30/2008

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Transporters - General

Date achieved compliance: 05/22/2009 Evaluation lead agency: State

Evaluation date: 03/06/2008

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/07/2005

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Transporters - General

Date achieved compliance: 10/24/2005 Evaluation lead agency: State

Evaluation date: 09/07/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Transporters - Manifest and Recordkeeping

Date achieved compliance: 10/20/2004 Evaluation lead agency: State

Evaluation date: 09/07/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Transporters - General

Date achieved compliance: 10/20/2004

Direction Distance

Elevation Site Database(s) EPA ID Number

## YOUNGS ENVIRONMENTAL CLEANUP INC (Continued)

1000315320

**EDR ID Number** 

Evaluation lead agency: State

Evaluation date: 09/01/2004

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/16/2003

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/04/2002

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/29/2001

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/16/2000

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/28/1998

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 03/07/1997

Evaluation: FOLLOW-UP INSPECTION Area of violation: Transporters - General

Date achieved compliance: 03/17/1997 Evaluation lead agency: State

Evaluation date: 12/03/1996

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Transporters - General

Date achieved compliance: 03/17/1997 Evaluation lead agency: State

Evaluation date: 12/03/1996

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 05/25/1995

Direction Distance

Elevation Site Database(s) EPA ID Number

## YOUNGS ENVIRONMENTAL CLEANUP INC (Continued)

1000315320

**EDR ID Number** 

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Transporters - General

Date achieved compliance: 03/17/1997 Evaluation lead agency: State

Evaluation date: 06/28/1994

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Transporters - General

Date achieved compliance: 10/11/1994 Evaluation lead agency: State

Evaluation date: 04/14/1992

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

WI MANIFEST:

Name: YOUNGS ENVIRONMENTAL CLEANUP INC

Address: G-5305 N DORT HWY City, State, Zip: FLINT, MI 48505

Year: 2018

EPA ID: MID106869506
FID: 998036380
ACT Code: 290
ACT Status: A
ACT Code 1: 290

ACT Name: Hazardous Waste Transporter - Commercial

Contact Title: VICE PRESIDENT
Contact Name: KRISDEN THIEL
Contact Address: G-5305 N DORT HWY
Contact City/State/Zip: FLINT, MI 48505
Contact Telephone: 8107897155
Contact EMail Address: kthiel@yeci.us

Transport:

Year: 2018

Manifest Doc ID: 014329985JJK Transporter EPA ID: MID106869506

Transport Order Num: 1

Transport Date: 05/24/2018

Waste:

Year: 2018

Manifest DOC ID: 014329985JJK

 Waste Page No:
 1

 Waste Line No:
 1

 Waste Code:
 D009

 Waste Amount:
 20

 Unit of Measure:
 Y

 Waste Lbs:
 33600

Year: 2018

Manifest Doc ID: 014329987JJK
Transporter EPA ID: MID106869506

Transport Order Num: 1

Transport Date: 05/29/2018

Direction Distance

Elevation Site Database(s) EPA ID Number

# YOUNGS ENVIRONMENTAL CLEANUP INC (Continued)

1000315320

**EDR ID Number** 

Waste:

Year: 2018

Manifest DOC ID: 014329987JJK

 Waste Page No:
 1

 Waste Line No:
 1

 Waste Code:
 D009

 Waste Amount:
 20

 Unit of Measure:
 Y

 Waste Lbs:
 33600

Name: YOUNGS ENVIRONMENTAL CLEANUP INC

Address: G-5305 N DORT HWY

City, State, Zip: FLINT, MI 48505

Year: 2013

EPA ID: MID106869506 FID: 998036380 ACT Code: 290 ACT Status: I

ACT Code 1: Not reported ACT Name: Not reported Not reported Contact Title: Contact Name: Not reported Not reported Contact Address: Not reported Contact City/State/Zip: Contact Telephone: Not reported Contact EMail Address: Not reported

Transport:

Year: 2013

Manifest Doc ID: 005375586FLE Transporter EPA ID: MID106869506

Transport Order Num:

Transport Date: 11/27/2013

Waste:

Year: 2013

Manifest DOC ID: 005375586FLE

 Waste Page No:
 1

 Waste Line No:
 1

 Waste Code:
 F003

 Waste Amount:
 55

 Unit of Measure:
 G

 Waste Lbs:
 458.7

Name: YOUNGS ENVIRONMENTAL CLEANUP INC

Address: G-5305 N DORT HWY

City,State,Zip: FLINT, MI 48505

Year: 2010

EPA ID: MID106869506 FID: 998036380 ACT Code: 290 ACT Status: I

ACT Code 1: Not reported ACT Name: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

# YOUNGS ENVIRONMENTAL CLEANUP INC (Continued)

1000315320

**EDR ID Number** 

Contact Title: Not reported
Contact Name: Not reported
Contact Address: Not reported
Contact City/State/Zip: Not reported
Contact Telephone: Not reported
Contact EMail Address: Not reported

Transport:

Year: 2010

Manifest Doc ID: 002367906FLE Transporter EPA ID: MID106869506

Transport Order Num: 1

Transport Date: 05/21/2010

Waste:

Year: 2010

Manifest DOC ID: 002367906FLE

 Waste Page No:
 1

 Waste Line No:
 1

 Waste Code:
 D003

 Waste Amount:
 55

 Unit of Measure:
 G

 Waste Lbs:
 458.7

Name: YOUNGS ENVIRONMENTAL CLEANUP INC

Address: G-5305 N DORT HWY

City,State,Zip: FLINT, MI 48505

Year: 2004

EPA ID: MID106869506 FID: 998036380 ACT Code: 290 ACT Status: I

ACT Code 1: Not reported ACT Name: Not reported Contact Title: Not reported Contact Name: Not reported Not reported Contact Address: Contact City/State/Zip: Not reported Contact Telephone: Not reported Contact EMail Address: Not reported

9 1415 EAST COLDWATER ROAD

West 1415 E. COLDWATER RD. < 1/8 GENESEE (County), MI

0.093 mi. 490 ft.

10

Actual: INVENTORY:

783 ft. Bea Number: 199800271LAFocus Map: Township: Genessee Township

District: Lansing
Data Source: BEA
Latitude: 43.09077
Longitude: -83.6784

TC5779007.5s Page 62

MI INVENTORY S114024289 N/A

MAP FINDINGS Map ID

Direction Distance

Elevation Site **EPA ID Number** Database(s)

A10 MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL RCRA-LQG 1000159193 NE 6065 N DORT HWY MI LUST MID000724823

**MOUNT MORRIS, MI 48458** < 1/8

0.094 mi. 496 ft. Site 2 of 3 in cluster A

Actual:

790 ft. RCRA-LQG:

Focus Map:

10

Date form received by agency: 04/30/2018

Facility name: MPLX TERMINALS LLC G6065 N DORT HWY Facility address:

MOUNT MORRIS, MI 48458

EPA ID: MID000724823 539 S MAIN ST Mailing address:

TT&R - HES&S FINDLAY, OH 45840

Contact: WILLIAM G MOORE

Contact address: Not reported Not reported

Contact country: Not reported Contact telephone: 419-421-3774

WGMOORE@MARATHONPETROLEUM.COM Contact email:

EPA Region: 05 Private Land type:

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: MPLX TERMINALS LLC 539 S MAIN ST TT&R - HES&S Owner/operator address:

FINDLAY, OH 45840

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator

04/01/2016 Owner/Op start date: Owner/Op end date: Not reported

Owner/operator name: MPLX TERMINALS LLC Owner/operator address: 539 S MAIN ST TT&R - HES&S

FINDLAY, OH 45840

US Owner/operator country:

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported **EDR ID Number** 

MI INVENTORY

ICIS

**US AIRS FINDS** 

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 04/01/2016 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: Nο 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

Historical Generators:

Date form received by agency: 04/13/2016

Site name: MPLX TERMINALS LLC
Classification: Small Quantity Generator

Date form received by agency: 06/11/2015

Site name: MARATHON PETROLEUM COMPANY LP

Classification: Small Quantity Generator

Date form received by agency: 08/20/2014

Site name: MARATHON PETROLEUM COMPANY LP

Classification: Small Quantity Generator

Date form received by agency: 07/02/2013

Site name: MARATHON PETROLEUM COMPANY LP

Classification: Small Quantity Generator

Date form received by agency: 07/09/2012

Site name: MARATHON PETROLEUM COMPANY LP

Classification: Small Quantity Generator

Date form received by agency: 04/19/2011

Site name: MARATHON PETROLEUM COMPANY LP

Classification: Small Quantity Generator

Date form received by agency: 04/20/2010

Site name: MARATHON PETROLEUM COMPANY LLC

Classification: Small Quantity Generator

Date form received by agency: 05/13/2009

Site name: MARATHON PETROLEUM COMPANY LLC

Classification: Small Quantity Generator

Direction Distance

Elevation Site Database(s) EPA ID Number

## MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Date form received by agency: 04/13/2006

Site name: MARATHON PETROLEUM COMPANY LLC

Classification: Small Quantity Generator

Date form received by agency: 08/29/2005

Site name: MARATHON PETROLEUM COMPANY LLC

Classification: Small Quantity Generator

Date form received by agency: 04/28/2005

Site name: MARATHON PETROLEUM COMPANY LLC

Classification: Small Quantity Generator

Date form received by agency: 02/22/1996

Site name: MARATHON OIL COMPANY-FLINT

Classification: Large Quantity Generator

Date form received by agency: 02/23/1994

Site name: MARATHON OIL COMPANY
Classification: Large Quantity Generator

Date form received by agency: 03/30/1992

Site name: MARATHON OIL COMPANY Classification: Large Quantity Generator

Date form received by agency: 08/18/1980

Site name: MARATHON PETROLEUM COMPANY LLC

Classification: Small Quantity Generator

# Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

## Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 04/06/1993
Date achieved compliance: 05/26/1993
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/13/1993
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

**Evaluation Action Summary:** 

Evaluation date: 04/06/1993

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 05/26/1993 Evaluation lead agency: State

LUST:

Direction Distance

Elevation Site Database(s) EPA ID Number

## MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Facility ID: 00018012

Source: STATE OF MICHIGAN
Owner Name: Marathon Petroleum Co LP

Owner Address: 539 S Main St Owner City,St,Zip: Findlay, OH 45840

Owner Contact: MPL Environmental (Todd Scarborough)

Owner Phone: (419) 421-2121

Country: USA
District: Lansing

Site Name: Marathon Petroleum Terminal

Latitude: 43.09139 Longitude: -83.67476 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-4190-85Release Date:07/25/1990Substance Released:Not reportedRelease Status:OpenRelease Closed Date:Not reported

INVENTORY:

Bea Number: Not reported Township: Not reported District: Lansing Data Source: Part 213 Latitude: 43.0914 Longitude: -83.67477

ICIS:

Enforcement Action ID: MI000A0000260490005900007

FRS ID: 110009026641

Action Name: MARATHON PETROLEUM COMPANY LP - FLINT 260490005900007 Facility Name: MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL

Facility Address: 6065 N DORT HWY

MOUNT MORRIS, MI 48458

Enforcement Action Type: Notice of Violation Facility County: GENESEE

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV

Facility SIC Code:

Federal Facility ID:

Latitude in Decimal Degrees:

Longitude in Decimal Degrees:

Permit Type Desc:

Not reported
43.0912
-83.6755
Not reported

Program System Acronym: MI0000000000B7110

Facility NAICS Code: 424710
Tribal Land Code: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

US AIRS (AFS):

Envid: 1000159193
Region Code: 05
County Code: MI049

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641 D and B Number: Not reported

Facility Site Name: MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL

Primary SIC Code: Not reported NAICS Code: 424710
Default Air Classification Code: SMI
Facility Type of Ownership Code: Not reported Air CMS Category Code: SMI
HPV Status: SMI
Not reported

US AIRS (AFS):

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: Federally-Enforceable State Operating Permit - Non Title V

Activity Date: 2010-09-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: Federally-Enforceable State Operating Permit - Non Title V

Activity Date: 2010-09-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: Federally-Enforceable State Operating Permit - Non Title V

Activity Date: 2013-05-17 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Direction Distance

Elevation Site Database(s) EPA ID Number

## MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Air Program: Federally-Enforceable State Operating Permit - Non Title V

Activity Date: 2013-05-31 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2008-09-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2010-09-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2010-09-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2013-05-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2013-05-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1985-07-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1986-09-03 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1987-08-27 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1989-08-07 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1990-06-27 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1990-10-30 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1992-01-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1994-08-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1996-08-16 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1998-04-29 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1999-08-11 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2000-09-05 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2001-06-26 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Activity Date: 2002-07-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2003-05-02 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2003-05-05 00:00:00

Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2008-05-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2008-07-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2008-09-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Activity Status.

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2010-09-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2010-09-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2013-05-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2013-05-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1989-10-24 00:00:00
Activity Status Date: 1989-10-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Review Permit Requirements

Activity Date: 2008-05-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Review Permit Requirements

Activity Date: 2008-07-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Review Permit Requirements

Activity Date: 2008-09-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Review Permit Requirements

Activity Date: 2010-09-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Review Permit Requirements

Activity Date: 2010-09-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Review Permit Requirements

Activity Date: 2013-05-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Review Permit Requirements

Activity Date: 2013-05-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1987-08-27 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Activity Date: 1989-08-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1994-08-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1996-08-16 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1998-04-29 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1999-08-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2000-09-05 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2001-06-26 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2002-07-30 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2003-05-02 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2003-05-05 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-06-18 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-05-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-07-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-09-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-09-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

## MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-09-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2013-05-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2013-05-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1989-10-24 00:00:00
Activity Status Date: 1989-10-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: Title V Permits

Map ID MAP FINDINGS
Direction

Distance Elevation

Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

Activity Date: 1997-07-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000B7110

Facility Registry ID: 110009026641

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: Title V Permits
Activity Date: 2003-05-05 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

FINDS:

Registry ID: 110009026641

Environmental Interest/Information System

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.

#### AIR SYNTHETIC MINOR

# AIR EMISSIONS CLASSIFICATION UNKNOWN

US EPA 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.

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

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MPLX TERMINALS LLC - FLINT LIGHT PRODUCTS TERMINAL (Continued)

1000159193

**EDR ID Number** 

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 it 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.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A11 MARATHON OIL CO MI UST U004290634
NE 6065 N DORT HWY N/A

< 1/8 MOUNT MORRIS, MI 48458

0.094 mi.

496 ft. Site 3 of 3 in cluster A

Actual: UST:

 790 ft.
 Facility Type:
 CLOSED

 Focus Map:
 Facility ID:
 00018012

Facility Region: 2

Owner Name: MARATHON PETROLEUM CO LP

Owner Address: 539 S MAIN ST Owner City: **FINDLAY** Owner State: OH 45840 Owner Zip: Owner Contact: Not reported Owner Phone: 4194212121 Contact: Not reported Contact Phone: Not reported Date of Collection: Not reported Accuracy: Not reported Horizontal Datum: Not reported Accuracy Value Unit: Not reported Not reported Source: Not reported Point Line Area: Not reported Desc Category: Method of Collection: Not reported District: Not reported

Tank ID: A
Capacity: 4000

Tank Status: Closed in Ground

Substance: Hazardous Substance(,FUEL ADDITIVE,AMINE AMIDECARBOXYLA),Other(FUEL

ADDITIVE)

Install Date: 05/01/1976 Remove Date: 09/17/1993 Tank Number: UTK-042768-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Galvanized Steel Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: Not reported

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**MARATHON OIL CO (Continued)** 

Longitude: Not reported

MI INVENTORY S114024285 12 **BUCKEYE TERMINAL FLINT** 

**G5340 N DORT HWY** N/A

< 1/8 FLINT, MI 48505

0.100 mi. 530 ft.

West

Actual: INVENTORY:

758 ft. Bea Number: Not reported Township: Genessee Township Focus Map:

District: Lansing 10 Data Source: Part 201

43.08605 Latitude: Longitude: -83.67291

**INDUSTRIAL IRON & METAL CO** MI SWRCY S107792559 13 West **4710 NORTH DORT HWY MI NPDES** N/A

FLINT, MI 48505 < 1/8

0.102 mi. 537 ft.

Actual: SWRCY: 740 ft. SR No: 135

Contact Phone1: 810-785-0883 Focus Map: EMail: Not reported 13

Website: Not reported Location Description: 558 miles away

Materials Accepted: Iron Services: Collector Collection: Drop off

Genesee County Service Area: Notes: Not reported Hours of Operation: Not reported Hazerdous Waste: Not reported E Scrap: Not reported Other: Not reported

SWRCY:

SR No 2: 135

Material: Paper - Computer Paper

Service: Broker Drop Off/Pick Up: None Minimum Quantity: None Unit: None Service Area: None

SR No 2: 135

Material: Paper - High Grade Paper

Service: Broker Drop Off/Pick Up: None Minimum Quantity: None Unit: None Service Area: None

SR No 2: 135

Material: Paper - Junk Mail U004290634

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **INDUSTRIAL IRON & METAL CO (Continued)**

S107792559

Service: Broker Drop Off/Pick Up: None Minimum Quantity: None Unit: None Service Area: None

SR No 2: 135

Material: Paper - Magazines

Service: Broker Drop Off/Pick Up: None Minimum Quantity: None Unit: None Service Area: None

SR No 2:

Material: Paper - Mixed Office Paper

Broker Service: Drop Off/Pick Up: None Minimum Quantity: None Unit: None Service Area: None

SR No 2:

135 Material: Paper - OCC/Corrugated Containers

Service: Broker Drop Off/Pick Up: None Minimum Quantity: None Unit: None Service Area: None

SR No 2: 135

Material: Paper - ONP Service: Broker Drop Off/Pick Up: None Minimum Quantity: None Unit: None Service Area: None

SR No 2: 135

Paper - Office Paper Recycling Services Material:

Service: Broker Drop Off/Pick Up: None Minimum Quantity: None Unit: None Service Area: None

SR No 2: 135

Material: Paper - Other Service: Broker Drop Off/Pick Up: None Minimum Quantity: None None Service Area: None

SR No 2: 135

Material: Paper - Paperboard

Service: Broker

Direction Distance Elevation

nce EDR ID Number ation Site Database(s) EPA ID Number

## **INDUSTRIAL IRON & METAL CO (Continued)**

S107792559

Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Paper - Telephone Books

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - ABS Plastic

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - Acetate

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - Acrylic

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - Engineered Thermoplastics

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - HDPE (2)

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - LDPE (4)

Service: Broker
Drop Off/Pick Up: None

Direction Distance Elevation

n Site Database(s) EPA ID Number

# INDUSTRIAL IRON & METAL CO (Continued)

Minimum Quantity: None Unit: None Service Area: None

SR No 2: 135

Material: Plastics - Mixed Thermoplastics

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - Nylon

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - Other (7)

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - PET/PETE (1)

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - PVC (3)

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - Polypropylene (5)

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Plastics - Polystyrene (6-Non-Expanded)

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None

S107792559

**EDR ID Number** 

Direction Distance Elevation

n Site Database(s) EPA ID Number

# INDUSTRIAL IRON & METAL CO (Continued)

Unit: None Service Area: None

SR No 2: 135

Material: Plastics - Polyurethane

Service: Broker
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None
Service Area: None

SR No 2: 135

Material: Glass - Clear Service: Curbside Collection

Drop Off/Pick Up: Pick-up Minimum Quantity: None Unit: None

Service Area: BERRIEN, CASS

SR No 2: 135

Material: Metals - Aluminum Service: Curbside Collection

Drop Off/Pick Up: Pick-up Minimum Quantity: None Unit: None

Service Area: BERRIEN, CASS

SR No 2: 135

Material: Metals - Aluminum Cans Service: Curbside Collection

Drop Off/Pick Up: Pick-up Minimum Quantity: None Unit: None

Service Area: BERRIEN, CASS

SR No 2: 135

Material: Metals - Stainless Steel

Service: None
Drop Off/Pick Up: Both
Minimum Quantity: None
Unit: None

Service Area: GRATIOT, ST. CLAIR

SR No 2: 135

Material: Metals - Tin Cans

Service: None
Drop Off/Pick Up: Both
Minimum Quantity: None
Unit: None

Service Area: GRATIOT, ST. CLAIR

SR No 2: 135

Material: Metals - White Goods

Service: None
Drop Off/Pick Up: None
Minimum Quantity: None
Unit: None

**EDR ID Number** 

S107792559

Direction Distance

Elevation Site Database(s) EPA ID Number

# INDUSTRIAL IRON & METAL CO (Continued)

S107792559

**EDR ID Number** 

Service Area: GRATIOT, ST. CLAIR

SR No 2: 135 Material: Misc

Material: Misc. - Carpet
Service: None
Drop Off/Pick Up: Pick-up
Minimum Quantity: None
Unit: None

Service Area: GRATIOT, ST. CLAIR

SR No 2: 135

Material: Misc. - Computers

Service: None
Drop Off/Pick Up: Drop-off
Minimum Quantity: None
Unit: None

Service Area: GRATIOT, ST. CLAIR

MI NPDES:

Permit Number: MIS510256

Permitee PO Box:

Permitee Email:
Issue Date:
04/14/2015
Effective Date:
04/14/2015
Expiration Date:
04/01/2020

Permittee Name: Industrial Iron & Metal Company
Permittee Address: 4710 North Dort Highway

Permittee Addr2: Not reported
Permittee City,St,Zip: Flint, MI 48505

Permit Type: NPDES Certificate of Coverage under General Permit (COC)

Facility Name 2: Not reported Facility Name 3: Not reported Facility Name 4: Not reported

Designed Name: Industrial Iron & Metal-Flint

Latitude: 43.070277 Lat Direction: Ν Lat Type Code: LAT Longitude: -83.672777 Lon Direction: W Lon Type Code: LON Hydrologic Unit Code: 4080204 Permit Status: In Effect COC Permit Category: SW-Industrial CY5

DEQ District Email: Lansing
DEQ Permit Compliance Manager: Brian Zuber

DEQ Permit Compliance Manager Email: zuberb@michigan.gov

Direction Distance

Elevation Site Database(s) EPA ID Number

C14 US SAN-TEC CORP MI UST U004181215
East 5225 ENERGY DR N/A

East 5225 ENERGY DR < 1/8 FLINT, MI 48505

0.103 mi.

542 ft. Site 1 of 3 in cluster C

Actual: UST 2:

750 ft. Owner Name: OWNER ADDRESS UNKNOWN

Focus Map: 10

Owner Address: Not Recorded
Owner Zip: 99999
Owner City: Not Recorded
Record ID: Not reported
Tank Status: Not reported

Owner Name: OWNER ADDRESS UNKNOWN

Owner Address: Not Recorded
Owner Zip: 99999
Owner City: Not reported
Record ID: UTK-015687-15
Tank Status: Temporarily out of Use

Owner Name: OWNER ADDRESS UNKNOWN

Owner Address: Not Recorded
Owner Zip: 99999
Owner City: Not reported
Record ID: UTK-062328-15
Tank Status: Temporarily out of Use

UST:

Facility Type: ACTIVE Facility ID: 00005130

Facility Region: 2

Owner Name: OWNER ADDRESS UNKNOWN

Owner Address: NOT RECORDED
Owner City: NOT RECORDED

Owner State: XXOwner Zip: 99999 Owner Contact: Not reported Owner Phone: Not reported Contact: Not reported Not reported Contact Phone: Not reported Date of Collection: Not reported Accuracy: Horizontal Datum: Not reported Accuracy Value Unit: Not reported Source: Not reported Point Line Area: Not reported Desc Category: Not reported Method of Collection: Not reported Not reported District:

Tank ID: 2 Capacity: 8000

Tank Status: Temporarily Out of Use

Substance: Other(WATER)
Install Date: 04/11/1980
Remove Date: Not reported
Tank Number: UTK-015687-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported

**EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

**US SAN-TEC CORP (Continued)** 

U004181215

**EDR ID Number** 

Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Tank Construction: Cathodically Protected Steel

Impressed Device: Not reported Latitude: Not reported Longitude: Not reported

Facility Type: ACTIVE Facility ID: 00005130

Facility Region: 2

Owner Name: OWNER ADDRESS UNKNOWN

Owner Address: NOT RECORDED
Owner City: NOT RECORDED

Owner State: XXOwner Zip: 99999 Owner Contact: Not reported Owner Phone: Not reported Contact: Not reported Not reported Contact Phone: Date of Collection: Not reported Accuracy: Not reported Horizontal Datum: Not reported Accuracy Value Unit: Not reported Not reported Source: Not reported Point Line Area: Desc Category: Not reported Method of Collection: Not reported District: Not reported Tank ID:

Tank ID: 1
Capacity: 8000

Tank Status: Temporarily Out of Use Substance: Other(WATER) Install Date: 04/11/1980 Not reported Remove Date: UTK-062328-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Cathodically Protected Steel

Impressed Device: Not reported Latitude: Not reported Longitude: Not reported Not reported

C15 MICHIGAN STEEL FABRICATORS INC

East 5225 ENERGY DR < 1/8 FLINT, MI 48505

0.103 mi.

542 ft. Site 2 of 3 in cluster C

Actual: RCRA-SQG:

**750 ft.** Date form received by agency: 03/20/2018

Focus Map: Facility name: MICHIGAN STEEL FABRICATORS INC

10 Facility address: 5225 ENERGY DR

FLINT, MI 48505

EPA ID: MID981955529

MID981955529

RCRA-SQG 1000376747

**FINDS** 

**ECHO** 

Direction Distance Elevation

ance EDR ID Number vation Site Database(s) EPA ID Number

## MICHIGAN STEEL FABRICATORS INC (Continued)

1000376747

Contact: ROBIN WEBSTER

Contact address: Not reported

Contact country: Not reported
Contact telephone: 810-785-1478
Contact email: Not reported

EPA Region: 05 Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: CHRIS WEBSTER
Owner/operator address: 5225 ENERGY DR

FLINT, MI 48505

Owner/operator country: US

Not reported Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner Owner/Operator Type: Owner/Op start date: 01/17/2000 Owner/Op end date: Not reported

Owner/operator name: CHRIS WEBSTER
Owner/operator address: 5225 ENERGY DR

FLINT, MI 48505

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/17/2000 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

Direction Distance

Elevation Site Database(s) EPA ID Number

# MICHIGAN STEEL FABRICATORS INC (Continued)

1000376747

**EDR ID Number** 

Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 05/15/2009

Site name: MICHIGAN STEEL FABRICATORS INC

Classification: Small Quantity Generator

Date form received by agency: 05/01/2007

Site name: MICHIGAN STEEL FABRICATORS INC

Classification: Small Quantity Generator

Date form received by agency: 04/20/2006

Site name: MICHIGAN STEEL FABRICATORS INC

Classification: Small Quantity Generator

Date form received by agency: 11/03/2004

Site name: MICHIGAN STEEL FABRICATORS INC

Classification: Small Quantity Generator

Date form received by agency: 04/28/2003

Site name: MICHIGAN STEEL FABRICATORS INC

Classification: Small Quantity Generator

Date form received by agency: 02/22/1990

Site name: US SAN TEC CORP
Classification: Large Quantity Generator

Date form received by agency: 04/06/1987

Site name: MICHIGAN STEEL FABRICATORS INC

Classification: Not a generator, verified

#### Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General

Date violation determined: 07/26/1990 Date achieved compliance: 09/10/1990

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/1990
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: LDR - General
Date violation determined: 08/09/1988
Date achieved compliance: 11/30/1988

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

# MICHIGAN STEEL FABRICATORS INC (Continued)

1000376747

**EDR ID Number** 

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/16/1988
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: 09/05/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/26/1990

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 09/10/1990 Evaluation lead agency: State

Evaluation date: 08/09/1988

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: LDR - General Date achieved compliance: 11/30/1988 Evaluation lead agency: State

FINDS:

Registry ID: 110001842230

#### Environmental Interest/Information System

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.

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.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## MICHIGAN STEEL FABRICATORS INC (Continued)

1000376747

ECHO:

1000376747 Envid: Registry ID: 110001842230

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110001842230

16 **CONTINENTAL BAKING CO** MI LUST U003082401 West **1510 E CARPENTER RD** MI UST N/A FLINT, MI 48505 MI WDS

< 1/8 0.111 mi. 587 ft.

Actual: LUST: 753 ft. Facility ID:

Focus Map: Source: STATE OF MICHIGAN Continental Baking Co Owner Name: Owner Address: 1100 Oakman Blvd Owner City, St, Zip: Detroit, MI 48238-2949

> Owner Contact: Not reported Owner Phone: (314) 982-4896 Country: USA

District: Lansing

Site Name: Continental Baking Co

Latitude: 43.07573 -83.67503 Longitude: Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

00015885

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Leak Number: C-0136-09 07/15/2008 Release Date: Substance Released: Gasoline, Diesel Release Status: Closed 09/11/2009 Release Closed Date:

UST:

CLOSED Facility Type: Facility ID: 00015885

Facility Region:

CONTINENTAL BAKING CO Owner Name: Owner Address: 1100 OAKMAN BLVD

**DETROIT** Owner City: Owner State: MI 48238-2949 Owner Zip: Not reported Owner Contact: 3149824896 Owner Phone: Contact: JIM FIELDS Contact Phone: (313) 963-2332 Date of Collection: 01/11/2001

Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Direction Distance

Elevation Site Database(s) EPA ID Number

# **CONTINENTAL BAKING CO (Continued)**

U003082401

**EDR ID Number** 

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 10000

Tank Status: Removed from Ground

Not reported Substance: 04/02/1980 Install Date: 07/26/1990 Remove Date: Tank Number: UTK-046992-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Not reported Pipe Release Detection: Galvanized Steel Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07573 Longitude: -83.67503

Facility Type: CLOSED Facility ID: 00015885

Facility Region: 2

Owner Name: CONTINENTAL BAKING CO
Owner Address: 1100 OAKMAN BLVD

Owner City: **DETROIT** Owner State: MI Owner Zip: 48238-2949 Owner Contact: Not reported Owner Phone: 3149824896 JIM FIELDS Contact: (313) 963-2332 Contact Phone: Date of Collection: 01/11/2001

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 1 Capacity: 5000

Tank Status: Removed from Ground

Substance: Not reported 04/02/1956 Install Date: 07/26/1990 Remove Date: Tank Number: UTK-040302-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Galvanized Steel Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07573 Longitude: -83.67503

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# **CONTINENTAL BAKING CO (Continued)**

U003082401

A100206670

N/A

MI AST

RCRA-SQG

WDS:

MIG000022372 Site Id: WMD Id: 451957

Site Specific Name: CONTINENTAL BAKERY Mailing Address: 1510 E CARPENTER RD

Mailing City/State/Zip: 48505 Mailing County: **GENESEE** 

**NORTHWOODS RV COUNTRY** 17

**0 N DORT** 

**MOUNT MORRIS, MI 48458** < 1/8

0.115 mi. 607 ft.

East

Actual: AST:

795 ft. Facility ID: 92025072 Facility Phone: ()-Focus Map:

NORTHWOODS RV COUNTRY Owner Name:

Owner Address: **G6369 N DORT** Owner City,St,Zip: MT MORRIS, MI 48458

Owner County: Not reported Owner Contact: Not reported 3136864330 Owner Telephone: District: 2

Contact: Not reported List Status: Not reported Date of Collection: 01/11/2001 100 FEET Accuracy:

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

**Description Category:** Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Horizontal Datum: NAD83 43.0935830 Latitude: Longitude: -83.674892

ATK-072088-15 Tank Id: Tank Status: Removed from Premises

Capacity (in gallons): 1000 Installation Date: Not reported Substance Stored: Other Removed/Closed Date: 05/01/1986

C18 **UNIVERSAL COATING INC** 

**East** 5204 ENERGY DR FLINT, MI 48505 < 1/8

0.123 mi.

647 ft. Site 3 of 3 in cluster C

RCRA-SQG: Actual:

751 ft. Date form received by agency: 04/16/2018

Facility name: UNIVERSAL COATING INC Focus Map:

10

Facility address: 5204 ENERGY DR FLINT, MI 48505

EPA ID: MIK294779897

Contact: TIMOTHY P JOHNSON 1007989918

MIK294779897

Direction Distance

Elevation Site Database(s) EPA ID Number

# **UNIVERSAL COATING INC (Continued)**

1007989918

**EDR ID Number** 

Contact address: Not reported

Contact country: Not reported
Contact telephone: 810-785-7555

Contact email: CORP@UNIVERSALCOATING.COM

EPA Region: 05 Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: TIMOTHY JOHNSON
Owner/operator address: 5204 ENERGY DR
FLINT, MI 48505

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 01/01/1984 Owner/Op end date: Not reported

Owner/operator name: HENRY JOHNSON
Owner/operator address: 5204 ENERGY DR
FLINT, MI 48505

Owner/operator country: US

Owner/operator country:

Owner/Op end date:

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Private Legal status: Owner/Operator Type: Owner Owner/Op start date: 01/01/1984 Owner/Op end date: Not reported

Owner/operator name: HENRY JOHNSON
Owner/operator address: 5204 ENERGY DR
FLINT, MI 48505

US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/01/1984

Owner/operator name: TIMOTHY JOHNSON Owner/operator address: 5204 ENERGY DR

FLINT, MI 48505

Not reported

Direction Distance Elevation

vation Site Database(s) EPA ID Number

# **UNIVERSAL COATING INC (Continued)**

1007989918

**EDR ID Number** 

Owner/operator country: US Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: Private Operator Owner/Operator Type: Owner/Op start date: 01/01/1984 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: Nο 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

## Universal Waste Summary:

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: Yes

# Historical Generators:

Date form received by agency: 08/28/2017

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 10/17/2016

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 07/22/2015

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 07/14/2014

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 04/19/2013

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 10/03/2012

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Direction Distance

Elevation Site Database(s) EPA ID Number

# **UNIVERSAL COATING INC (Continued)**

1007989918

**EDR ID Number** 

Date form received by agency: 04/13/2011

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 12/31/2009

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 12/31/2009

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 03/28/2008

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 03/05/2007

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 03/03/2006

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

Date form received by agency: 02/08/2005

Site name: UNIVERSAL COATING INC Classification: Small Quantity Generator

# Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 07/21/2009
Date achieved compliance: 10/29/2009
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/2009
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 - Pre-transport

Date violation determined: 07/21/2009
Date achieved compliance: 10/29/2009
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/2009
Enf. disposition status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

**UNIVERSAL COATING INC (Continued)** 

1007989918

**EDR ID Number** 

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: 07/21/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 10/29/2009 Evaluation lead agency: State

Evaluation date: 07/21/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Pre-transport

Date achieved compliance: 10/29/2009 Evaluation lead agency: State

D19 RELIABLE METAL STAMPINGS

MPINGS RCRA NonGen / NLR 1000245373
MID059826909

West G5522 N DORT HWY 1/8-1/4 FLINT, MI 48505

0.140 mi.

741 ft. Site 1 of 2 in cluster D

Actual: RCRA NonGen / NLR:

**750 ft.** Date form received by agency: 12/31/2002

Focus Map: Facility name: RELIABLE METAL STAMPINGS

Facility address: G5522 N DORT HWY

FLINT, MI 48505
EPA ID: MID059826909
Contact: M TIPPETT
Contact address: G5522 N DORT HWY

FLINT, MI 48505

Contact country: US

Contact telephone: 313-785-4007 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 country:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported Not reported

Not reported Not reported

Owner/operator telephone:
Owner/operator email:
Owner/operator fax:
Owner/operator extension:
Legal status:
Owner/Operator Type:
Owner/Operator Type:
Owner/Op start date:
Owner/Op end date:
Not reported
Not reported
Oor extension:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported

Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

# **RELIABLE METAL STAMPINGS (Continued)**

1000245373

**EDR ID Number** 

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Private Legal status: Owner/Operator Type: Owner 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: Nο 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

Historical Generators:

Date form received by agency: 10/06/1986

Site name: RELIABLE METAL STAMPINGS
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

20 GENESEE POWER STATION LIMITED PARTNERSHIP

East G 5310 NORTH DORT HIGHWAY 1/8-1/4 FLINT, MI 48505

0.151 mi. 796 ft.

Actual: AST:

**751 ft.** Facility ID: 91025131 **Focus Map:** Facility Phone: (810) 785-6997

Owner City, St, Zip:

10 Owner Name: GENESEE POWER STATION Owner Address: G-5310 N DORT HWY

FLINT, MI 48505-1854

Owner County: Not reported
Owner Contact: Not reported
Owner Telephone: Not reported

District: 2

Contact: Eric Sawatzki List Status: Not reported MI AST

**US AIRS** 

**ICIS** 

1004531463

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Date of Collection: 07/26/2005 Accuracy: 10 METERS

Source: STATE OF MICHIGAN

Point Line Area: POINT

Description Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Horizontal Datum: NAD83 Latitude: 43.0849960 Longitude: -83.668005

Tank Id: ATK-100011-15
Tank Status: Currently In Use

Capacity (in gallons): 8000
Installation Date: 11/28/1995
Substance Stored: Other
Removed/Closed Date: Not reported

ICIS:

Enforcement Action ID: MI000A0000260490047200075

FRS ID: 110001842356

Action Name: GENESEE POWER STATION LIMITED PARTNERSHI 260490047200075

Facility Name: GENESEE POWER STATION LIMITED PARTNERSHIP

Facility Address: G 5310 NORTH DORT HIGHWAY

FLINT, MI 48505

Enforcement Action Type: Notice of Violation Facility County: GENESEE
Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 43.085

Longitude in Decimal Degrees: -83.6701
Permit Type Desc: Not reported

Program System Acronym: MI0000000000N3570

Facility NAICS Code: 221118
Tribal Land Code: Not reported

Enforcement Action ID: MI000A0000260490047200068

FRS ID: 110001842356

Action Name: GENESEE POWER STATION LIMITED PARTNERSHI 260490047200068

Facility Name: GENESEE POWER STATION LIMITED PARTNERSHIP

Facility Address: G 5310 NORTH DORT HIGHWAY

FLINT, MI 48505 Notice of Violation

Enforcement Action Type: Notice of Vic Facility County: GENESEE Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 43.085
Longitude in Decimal Degrees: -83.6701
Permit Type Desc: Not reported

Program System Acronym: MI0000000000N3570

Facility NAICS Code: 221118
Tribal Land Code: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Enforcement Action ID: MI000A0000260490047200018

FRS ID: 110001842356

Action Name: GENESEE POWER STATION LIMITED PARTNERSHI 260490047200018

Facility Name: GENESEE POWER STATION LIMITED PARTNERSHIP

Facility Address: G 5310 NORTH DORT HIGHWAY

FLINT, MI 48505

Enforcement Action Type: Administrative Order

Facility County: GENESEE Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: SCAAAO
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 43.085
Longitude in Decimal Degrees: -83.6701
Permit Type Desc: Not reported

Program System Acronym: MI00000000000N3570

Facility NAICS Code: 221118
Tribal Land Code: Not reported

US AIRS (AFS):

Envid: 1004531463

Region Code: 05 County Code: MI049

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356 D and B Number: Not reported

Facility Site Name: GENESEE POWER STATION LIMITED PARTNERSHIP

Primary SIC Code:
NAICS Code:
221118
Default Air Classification Code:
HAJ
Facility Type of Ownership Code:
Air CMS Category Code:
TVM

HPV Status: Not reported

US AIRS (AFS):

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2015-07-24 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2015-07-28 00:00:00 Activity Status Date: 2015-09-15 13:00:17

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2015-08-03 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2016-05-18 00:00:00
Activity Status Date: 2016-07-11 10:40:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2016-08-30 00:00:00
Activity Status Date: 2016-09-08 14:59:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2007-09-12 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

riotric

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2007-09-21 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2007-10-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2008-01-29 00:00:00

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2008-03-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2008-04-30 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Direction Distance

Elevation Site Database(s) EPA ID Number

## GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2008-07-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2008-07-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2008-09-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2009-07-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2009-08-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2010-05-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2010-05-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2011-03-03 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2012-04-19 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2012-04-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2013-06-27 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2013-07-05 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: MACT Standards (40 CFR Part 63)

Activity Date: 2012-10-12 00:00:00
Activity Status Date: 2012-10-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: Not reported
Activity Status Date: 1998-05-12 00:00:00

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Date: Not reported

Activity Status Date: 1999-11-24 00:00:00

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2015-07-24 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2015-07-28 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2015-08-03 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2016-05-18 00:00:00
Activity Status Date: 2016-07-11 10:40:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Direction Distance Elevation

vation Site Database(s) EPA ID Number

## GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2016-08-30 00:00:00
Activity Status Date: 2016-09-08 14:59:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 1995-06-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 1996-04-17 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 1997-12-01 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 1998-05-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 1998-10-01 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 1999-01-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 1999-09-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2000-04-28 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2000-11-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2001-11-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2002-04-17 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2003-07-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2003-08-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Map ID MAP FINDINGS
Direction

Direction

Elevation Site Database(s) EPA ID Number

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Date: 2007-09-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2007-09-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2007-10-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2008-01-29 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2008-03-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2008-04-30 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2008-07-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2008-07-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2008-09-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2009-07-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Activity clatus.

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2009-08-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2010-05-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2010-05-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2011-03-03 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2012-04-19 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

## GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2012-04-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2013-06-27 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2013-07-05 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 1999-08-11 00:00:00
Activity Status Date: 1999-08-11 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Date: 2012-10-12 00:00:00
Activity Status Date: 2012-10-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2015-07-24 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2015-07-28 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2015-08-03 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2016-05-18 00:00:00
Activity Status Date: 2016-07-11 10:40:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2016-08-30 00:00:00
Activity Status Date: 2016-09-08 14:59:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 1999-09-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2000-04-28 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2000-11-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2001-11-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2002-04-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2003-07-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2003-08-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2015-07-24 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2015-07-28 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Active
Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2015-08-03 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-18 00:00:00
Activity Status Date: 2016-07-11 10:40:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-08-30 00:00:00
Activity Status Date: 2016-09-08 14:59:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1995-06-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Date: 1995-12-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1996-01-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1996-04-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1996-08-20 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1996-11-19 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1997-06-18 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1997-08-27 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1997-12-01 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1998-05-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1998-10-01 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1999-01-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1999-09-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2000-04-28 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2000-11-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2001-11-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2002-04-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2003-07-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2003-08-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2004-09-22 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Activity Date: 2007-09-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-09-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-10-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-01-29 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-03-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-04-30 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-07-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-07-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-09-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-07-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-08-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-05-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-05-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-03-03 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-04-19 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-04-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2013-06-27 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2013-07-05 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-07-18 00:00:00
Activity Status Date: 2007-07-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Date: 2012-10-12 00:00:00
Activity Status Date: 2012-10-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: The Mandatory Greenhouse Gas Reporting Rule

Activity Date: 2015-07-24 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: The Mandatory Greenhouse Gas Reporting Rule

Activity Date: 2015-07-28 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: The Mandatory Greenhouse Gas Reporting Rule

Activity Date: 2015-08-03 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: The Mandatory Greenhouse Gas Reporting Rule

Activity Date: 2016-05-18 00:00:00
Activity Status Date: 2016-07-11 10:40:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: The Mandatory Greenhouse Gas Reporting Rule

Activity Date: 2016-08-30 00:00:00
Activity Status Date: 2016-09-08 14:59:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-02-18 00:00:00
Activity Status Date: 2015-09-15 13:00:36
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-07-24 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-07-28 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-08-03 00:00:00
Activity Status Date: 2015-09-15 13:00:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

# GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-02-19 00:00:00
Activity Status Date: 2016-04-12 11:31:40
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-18 00:00:00
Activity Status Date: 2016-07-11 10:40:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-08-30 00:00:00
Activity Status Date: 2016-09-08 14:59:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2003-08-04 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2004-09-22 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

# **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

AIR MI0000000000N3570 Programmatic ID:

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits **Activity Date:** 2006-06-13 00:00:00 Activity Status Date: Not reported

**Compliance Monitoring** Activity Group: Inspection/Evaluation Activity Type:

Activity Status: Not reported

Region Code: 05

AIR MI0000000000N3570 Programmatic ID:

110001842356 Facility Registry ID:

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits **Activity Date:** 2007-07-09 00:00:00 Activity Status Date: Not reported

Activity Group: Compliance Monitoring Inspection/Evaluation Activity Type:

**Activity Status:** Not reported

Region Code:

AIR MI0000000000N3570 Programmatic ID:

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits **Activity Date:** 2007-09-12 00:00:00 Activity Status Date: Not reported

Activity Group: **Compliance Monitoring** Activity Type: Inspection/Evaluation

**Activity Status:** Not reported

Region Code: 05

AIR MI0000000000N3570 Programmatic ID:

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits Activity Date: 2007-09-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Not reported

**Activity Status:** 

Region Code:

AIR MI0000000000N3570 Programmatic ID:

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Date: 2007-10-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-01-29 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title \( \)

Air Program: Title V Permits
Activity Date: 2008-03-11 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-03-12 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code:
Default Air Classification Code:
Air Program:
Activity Date:
Activity Status Date:
OPR
MAJ
Title V Permits
2008-04-30 00:00:00
Not reported

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Distance

Elevation Site Database(s) EPA ID Number

#### **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-07-11 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-07-31 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-09-11 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-03-04 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-03-12 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Distance

Elevation Site Database(s) EPA ID Number

#### **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-07-31 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-08-04 00:00:00
Activity Status Date: Not reported

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-02-10 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-02-15 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-05-12 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Distance

Elevation Site Database(s) EPA ID Number

## GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-05-21 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-03-03 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-03-20 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-03-07 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits

MAP FINDINGS Map ID Direction

Distance

Elevation Site Database(s) **EPA ID Number** 

## **GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)**

1004531463

**EDR ID Number** 

Activity Date: 2012-03-25 00:00:00 Activity Status Date: Not reported Activity Group: **Compliance Monitoring** Inspection/Evaluation Activity Type: **Activity Status:** Not reported

Region Code: 05

AIR MI0000000000N3570 Programmatic ID:

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits Activity Date: 2012-04-19 00:00:00 Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

**Activity Status:** Not reported

Region Code: 05

AIR MI0000000000N3570 Programmatic ID:

Facility Registry ID: 110001842356

Air Operating Status Code: **OPR** Default Air Classification Code: MAJ Air Program: Title V Permits

2012-04-23 00:00:00 **Activity Date:** Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

**Activity Status:** Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: **OPR** Default Air Classification Code: MAJ

Air Program: Title V Permits Activity Date: 2013-02-15 00:00:00 Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

AIR MI0000000000N3570 Programmatic ID:

Facility Registry ID: 110001842356

OPR Air Operating Status Code: Default Air Classification Code: MAJ Air Program: Title V Permits Activity Date: 2013-02-24 00:00:00 Not reported Activity Status Date: Activity Group:

Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status:

Not reported

Region Code:

Programmatic ID: AIR MI0000000000N3570

05

Facility Registry ID: 110001842356

Direction Distance

Elevation Site Database(s) EPA ID Number

## GENESEE POWER STATION LIMITED PARTNERSHIP (Continued)

1004531463

**EDR ID Number** 

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2013-06-27 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2013-07-05 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2014-02-19 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI00000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2014-02-26 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 05

Programmatic ID: AIR MI0000000000N3570

Facility Registry ID: 110001842356

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-10-12 00:00:00
Activity Status Date: 2012-10-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Direction

Distance

EDR ID Number

Elevation Site

Database(s) EPA ID Number

 21
 FLINT TERMINAL
 FINDS 1016157701

 SW
 G5340 N DORT
 FUELS PROGRAM N/A

 1/8-1/4
 FLINT, MI 48505

0.152 mi. 800 ft.

Actual: FINDS:

759 ft.

Focus Map: Registry ID: 110070239887

10

Environmental Interest/Information System

GASOLINE AND DIESEL PRODUCERS

ETHANOL FACILITY/GASOLINE AND DIESEL PRODUCERS

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

FUELS PROGRAM:

Program Type: Diesel Company Seq. ID: 4350

Business Activity: Pipeline/Pass-Through Terminal, Truck Loading Terminal/Locomotive

Marker Facility

Company Name: EXXONMOBIL PIPELINE COMPANY

Company Address: 800 BELL ST

HOUSTON, TX 77002

Facility ID: 81700

Facility Type: Diesel/Biodiesel

Facility Activity: Truck Loading Terminal/Locomotive Marker Facility

Subject to 80.1403: Not reported

Fuel Only For Off Road: Yes

Fuel Created: Not reported D Code: Not reported

OTAQ Program ID: OTAQREG10025663

Program Type: Diesel, Renewable Fuel Standard, Gasoline

Company Seq. ID: 4564

Business Activity: Refiner, Non-Renewable Fuels Importer, Truck Loading

Terminal/Locomotive Marker Facility, Pipeline/Pass-Through Terminal,

Mobile Facility, Renewable Fuels Importer, Oxygenate Blender

Company Name:

Company Address:

BUCKEYE PARTNERS LP
9999 Hamilton Blvd
Breinigsville, PA 18031

Dielingsville, FA

Facility ID: 81700

Facility Type: Diesel/Biodiesel

Facility Activity: Truck Loading Terminal/Locomotive Marker Facility

Subject to 80.1403: Not reported Fuel Only For Off Road: Yes

Fuel Created: Not reported
D Code: Not reported
OTAQ Program ID: OTAQREG10023115

Program Type: Diesel, Renewable Fuel Standard, Gasoline

Company Seq. ID: 4564

Business Activity: Refiner, Non-Renewable Fuels Importer, Truck Loading

Terminal/Locomotive Marker Facility, Pipeline/Pass-Through Terminal,

Mobile Facility, Renewable Fuels Importer, Oxygenate Blender

Company Name: BUCKEYE PARTNERS LP

Direction Distance

Elevation Site Database(s) EPA ID Number

FLINT TERMINAL (Continued) 1016157701

Company Address: 9999 Hamilton Blvd

Breinigsville, PA 18031

Facility ID: 21780
Facility Type: Gas/Ethanol
Facility Activity: Oxygenate Blender
Subject to 80.1403: Not reported
Fuel Only For Off Road: Yes

Fuel Only For Off Road:

Fuel Created:

D Code:

OTAQ Program ID:

Yes

Not reported

Not reported

OTAQREG10032582

\_\_\_\_\_

D22 AUBURN AUTO SALES AND PARTS RCRA NonGen / NLR 1008403599
West 5910 N DORT HWY MIK749466694

West 5910 N DORT HWY 1/8-1/4 FLINT, MI 48505

0.152 mi.

803 ft. Site 2 of 2 in cluster D

Actual: RCRA NonGen / NLR:

**750 ft.** Date form received by agency: 10/07/2008

Focus Map: Facility name: AUBURN AUTO SALES AND PARTS

13 Facility address: 5910 N DORT HWY

FLINT, MI 48505 EPA ID: MIK749466694

EPA ID: MIK749466694
Mailing address: 1140 RIVER FOREST DR

FLINT. MI 48532

Contact: KUMAR VEMULAPALLI Contact address: 5910 N DORT HWY

FLINT, MI 48505

Contact country: US

Contact telephone: 810-394-4709
Contact email: Not reported
EPA Region: 05
Land type: Private

Classification: Non-Generator

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

Owner/Operator Summary:

Owner/operator name: KUMAR VEMULAPALLI, VIJAYA KULNAIE

Owner/operator address: Not reported Not reported Owner/operator country: Not reported

Not reported Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 02/01/2001 Owner/Op end date: Not reported

Owner/operator name: KUMAR VEMULAPALLI, VIJAYA KULNAIE

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported

**EDR ID Number** 

Direction
Distance

Elevation Site Database(s) EPA ID Number

#### **AUBURN AUTO SALES AND PARTS (Continued)**

1008403599

**EDR ID Number** 

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/01/2001
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: Nο 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: Nο Used oil transfer facility: No Used oil transporter: No

#### **Historical Generators:**

Date form received by agency: 09/07/2005

Site name: AUBURN AUTO SALES AND PARTS

Classification: Not a generator, verified

## Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

# Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: State Statute or Regulation

Date violation determined: 05/11/2005
Date achieved compliance: 03/20/2014
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 05/19/2005 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
Area of violation: Generators - General

Date violation determined: 05/11/2005
Date achieved compliance: 03/20/2014
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **AUBURN AUTO SALES AND PARTS (Continued)**

1008403599

Enforcement action date: 05/19/2005 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 Not reported Paid penalty amount:

Regulation violated: Not reported

Area of violation: Used Oil - Generators

Date violation determined: 05/11/2005 Date achieved compliance: 03/20/2014 Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 05/19/2005 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

**Evaluation Action Summary:** 

Evaluation date: 05/11/2005

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: Used Oil - Generators

03/20/2014 Date achieved compliance: Evaluation lead agency: State

Evaluation date: 05/11/2005

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 03/20/2014 Evaluation lead agency: State

Evaluation date: 05/11/2005

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: State Statute or Regulation

Date achieved compliance: 03/20/2014 Evaluation lead agency: State

MI INVENTORY

E23 **MARKO METALS 5200 N. DORT HIGHWAY** West 1/8-1/4 FLINT, MI 48505

0.156 mi.

Site 1 of 7 in cluster E 826 ft.

Actual: INVENTORY:

751 ft. 201602174LA Bea Number: Township: Flint Focus Map: District: Lansing

Data Source: **BEA** 43.06196 Latitude: Longitude: -83.6729

Bea Number: 201602175LA

Township: Flint District: Lansing S114024281

N/A

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**MARKO METALS (Continued)** S114024281

Data Source: BEA 43.06196 Latitude: -83.6729 Longitude:

Bea Number: Not reported Township: Flint District: Lansing Data Source: Part 201 43.06196 Latitude: Longitude: -83.6729

F24 **ACE - SAGINAW PAVING CO.** RCRA-CESQG 1000102455 2184 E COLDWATER RD NE **US AIRS** MID003856689

FLINT, MI 48505 1/8-1/4 **FINDS** 0.158 mi. **ECHO** 

Site 1 of 2 in cluster F 832 ft.

RCRA-CESQG: Actual:

750 ft. Date form received by agency: 07/20/2016

ACE - SAGINAW PAVING CO. Facility name: Focus Map: Facility address: 2184 E COLDWATER RD

FLINT, MI 48505

EPA ID: MID003856689

51445 W 12 MILE RD Mailing address: WIXOM, MI 48393

THOMAS E GREEN Contact: Contact address: Not reported

Not reported

Not reported Contact country: 313-690-0139 Contact telephone:

Contact email: TGREEN@EDWCLEVY.NET

EPA Region:

Classification: Conditionally Exempt Small Quantity Generator

Handler: generates 100 kg or less of hazardous waste per calendar Description: 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: EDW C LEVY CO Owner/operator address: Not reported

> Not reported Not reported Not reported

Owner/operator country: Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## ACE - SAGINAW PAVING CO. (Continued)

1000102455

**EDR ID Number** 

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: EDW C LEVY CO
Owner/operator address: Not reported

Owner/operator country:
Owner/operator telephone:
Owner/operator email:
Owner/operator fax:
Owner/operator extension:
Legal status:
Owner/Operator Type:

Not reported
Not reported
Not reported
Private
Operator
Operator
Operator
Operator

Owner/Operator Type: Operator
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

# Historical Generators:

Date form received by agency: 07/15/2013

Site name: ACE ASPHALT AND PAVING CO

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 05/30/2012

Site name: ACE ASPHALT AND PAVING CO Classification: Small Quantity Generator

Date form received by agency: 04/18/2011

Site name: ACE ASPHALT AND PAVING CO Classification: Small Quantity Generator

Date form received by agency: 07/06/2010

Site name: ACE ASPHALT AND PAVING CO Classification: Small Quantity Generator

Date form received by agency: 06/08/1987

Site name: ACE ASPHALT AND PAVING CO Classification: Small Quantity Generator

Distance

Elevation Site Database(s) EPA ID Number

## ACE - SAGINAW PAVING CO. (Continued)

1000102455

**EDR ID Number** 

Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

US AIRS MINOR:

Envid: 1000102455

Region Code: 05

Programmatic ID: AIR MI0000000000A1084

Facility Registry ID: 110001825437
D and B Number: Not reported
Primary SIC Code: 2951
NAICS Code: 324121
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported

Air CMS Category Code: Not reported HPV Status: Not reported

US AIRS MINOR:

Region Code: 05

Programmatic ID: AIR MI0000000000A1084

Facility Registry ID: 110001825437

Air Operating Status Code: OPR
Default Air Classification Code: MIN

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1997-07-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

FINDS:

Registry ID: 110001825437

Environmental Interest/Information System

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.

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.

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## ACE - SAGINAW PAVING CO. (Continued)

1000102455

AIR MINOR

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

ECHO:

1000102455 Envid: Registry ID: 110001825437

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110001825437

U003082805 F25 **ACE ASPHALT GARAGE** MI LUST ΝE 2184 E COLDWATER RD MI UST N/A MI AST

1/8-1/4 FLINT, MI 48505

0.158 mi.

832 ft. Site 2 of 2 in cluster F

Actual: LUST:

750 ft. Facility ID: 00034554

STATE OF MICHIGAN Source: Focus Map: Owner Name: Edw C Levy Co 10 Owner Address: 9300 Dixie Ave

> Owner City,St,Zip: Dearborn, MI 48120 Ben Kroeger Owner Contact: Owner Phone: (313) 429-2200

Country: USA District: Lansing

Site Name: Ace Asphalt Garage

43.09035 Latitude: Longitude: -83.67067 Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

100 Accuracy: Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Leak Number: C-0176-14 Release Date: 12/15/2014 Substance Released: Diesel, Diesel Release Status: Closed Release Closed Date: 03/23/2015

UST:

Facility Type: CLOSED Facility ID: 00034554

Facility Region: 2

EDW C LEVY CO Owner Name: Owner Address: 9300 DIX AVE Owner City: **DEARBORN** 

Owner State: MI Owner Zip: 48120 Owner Contact: Not reported Owner Phone: 3134292200 Contact: Benjamin Kroeger (248) 675-0101 Contact Phone: Date of Collection: 01/11/2001

Direction Distance

Elevation Site Database(s) EPA ID Number

# ACE ASPHALT GARAGE (Continued)

U003082805

**EDR ID Number** 

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

 Tank ID:
 7004

 Capacity:
 10000

Tank Status: Removed from Ground

Substance: Diesel
Install Date: 12/04/1988
Remove Date: 12/15/2014
Tank Number: UTK-010658-15
Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing, Other

Piping Material: Double Walled, Flexible Piping

Piping Type: Pressure (Remote)

Tank Construction: Cathodically Protected Steel, Other

Impressed Device: Not reported Latitude: 43.09035 Longitude: -83.67067

Facility Type: CLOSED
Facility ID: 00034554

Facility Region: 2

Owner Name: EDW C LEVY CO
Owner Address: 9300 DIX AVE
Owner City: DEARBORN

Owner State: MI Owner Zip: 48120 Owner Contact: Not reported Owner Phone: 3134292200 Benjamin Kroeger Contact: (248) 675-0101 Contact Phone: Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

 Tank ID:
 7003

 Capacity:
 10000

Tank Status: Removed from Ground

Substance: Diesel
Install Date: 12/04/1988
Remove Date: 12/15/2014
Tank Number: UTK-031133-15
Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing, Other

Piping Material: Double Walled, Flexible Piping

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **ACE ASPHALT GARAGE (Continued)**

U003082805

Piping Type: Pressure (Remote)

Cathodically Protected Steel, Other Tank Construction:

Impressed Device: Not reported Latitude: 43.09035 Longitude: -83.67067

AST:

Facility ID: 92085174 Facility Phone: Not reported Owner Name: ACE ASPHALT Owner Address: G-4283 S DORT HWY Owner City, St, Zip: BURTON, MI 48505

Owner County: Not reported Owner Contact: Not reported Owner Telephone: 8107430500

District:

Contact: Not reported List Status: Not reported 12/16/2014 Date of Collection: **METERS** Accuracy:

STATE OF MICHIGAN Source:

Point Line Area: **POINT Description Category:** Not reported

GPS Code Meas. Standard Positioning Service SA Off Method of Collection:

Horizontal Datum: NAD83 Latitude: 43.0881620 Longitude: -83.668710

Tank Id: ATK-124108-15

Removed from Premises Tank Status:

Capacity (in gallons): 1000 Installation Date: 07/30/2008 Substance Stored: LPG Removed/Closed Date: 03/23/2010

Tank Id: ATK-137697-15 Tank Status: Currently In Use

Capacity (in gallons): 1000 Installation Date: 07/01/2010 Substance Stored: LPG Removed/Closed Date: Not reported

**GENESEE FENCE & SUPPLY CO** 

West 6226 N DORT HWY FLINT, MI 48505 1/8-1/4

0.161 mi.

G26

848 ft. Site 1 of 4 in cluster G

LUST: Actual: 751 ft.

Facility ID: 00014967

Focus Map: Source: STATE OF MICHIGAN Owner Name: Genesee Fence & Supply Co 13

Owner Address: 6226 N Dort Hwy Owner City, St, Zip: Flint, MI 48505-2347 Owner Contact: Not reported (734) 789-0733 Owner Phone:

1000828255

N/A

MI LUST

MI UST

MI WDS

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE FENCE & SUPPLY CO (Continued)**

1000828255

**EDR ID Number** 

Country: USA
District: Lansing

Site Name: Genesee Fence & Supply

 Latitude:
 43.09306

 Longitude:
 -83.67457

 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-1652-92Release Date:09/24/1992Substance Released:Gasoline, DieselRelease Status:ClosedRelease Closed Date:06/03/1993

UST:

Facility Type: CLOSED Facility ID: 00014967

Facility Region: 2

Owner Name: GENESEE FENCE & SUPPLY CO

Owner Address: 6226 N DORT HWY

Owner City: FLINT Owner State: MI

Owner Zip: 48505-2347
Owner Contact: Not reported
Owner Phone: 7347890733
Contact: BERNARD J KUZAVA

Contact Phone: (734) 789-0733
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83

Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 2000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 03/14/1979 10/02/1992 Remove Date: Tank Number: UTK-010128-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel, Fiberglass Reinforced Plastic

Impressed Device: Not reported Latitude: 43.09306 Longitude: -83.67457

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

## **GENESEE FENCE & SUPPLY CO (Continued)**

1000828255

**EDR ID Number** 

Facility Type: CLOSED 00014967 Facility ID:

Facility Region: 2

Owner Name: GENESEE FENCE & SUPPLY CO

Owner Address: 6226 N DORT HWY

**FLINT** Owner City: Owner State: MI 48505-2347 Owner Zip: Owner Contact: Not reported Owner Phone: 7347890733 BERNARD J KUZAVA Contact:

Contact Phone: (734) 789-0733 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Address Matching-House Number Method of Collection:

1

District: Lansing District Office

Tank ID:

Capacity: 2000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 03/14/1975 Remove Date: 10/02/1992 Tank Number: UTK-070406-15 Tank Details Compartments: Not reported Tank Release Detection: **Inventory Control** Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel, Description of Other Construction, Fiberglass Reinforced Plastic, Other

Impressed Device: Not reported 43.09306 Latitude: -83.67457 Longitude:

WDS:

Site Id: MID985653187 WMD Id: 407878

Site Specific Name: GENESEE FENCE AND SUPPLY CO

Mailing Address: 6226 N DORT HWY

Mailing City/State/Zip: 48505 Mailing County: **GENESEE** 

**G27 GENESEE FENCE AND SUPPLY CO** RCRA-CESQG 1004723966 **6226 N DORT HWY** MID985653187 **FINDS** 

West 1/8-1/4 **FLINT, MI 48505** 

0.161 mi.

848 ft. Site 2 of 4 in cluster G Actual: RCRA-CESQG:

751 ft. Date form received by agency: 10/23/1992

Facility name: GENESEE FENCE AND SUPPLY CO Focus Map:

Facility address: 6226 N DORT HWY

FLINT, MI 48505

**ECHO** 

Direction Distance Elevation

vation Site Database(s) EPA ID Number

## **GENESEE FENCE AND SUPPLY CO (Continued)**

1004723966

**EDR ID Number** 

EPA ID: MID985653187

Contact: MARY PIKE

Contact address: 6226 N DORT HWY

FLINT, MI 48505

Contact country: US

Contact telephone: 313-789-0733 Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

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

the cleanup of a spill, into or on any land or water, of acute

hazardous waste

Owner/Operator Summary:

Owner/operator name: GENESEE FENCE AND SUPPLY CO

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/01/1970 Owner/Op end date: Not reported

Owner/operator name: GENESEE FENCE AND SUPPLY CO

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Not reported Owner/operator email: Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: Private 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

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GENESEE FENCE AND SUPPLY CO (Continued)**

1004723966

**EDR ID Number** 

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: Nο Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

#### Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110003676317

Environmental Interest/Information System

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.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004723966 Registry ID: 110003676317

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003676317

G28 6200 NORTH DORT HIGHWAY MI BEA S111333524

West 6200 NORTH DORT HIGHWAY 1/8-1/4 FLINT, MI 48505

0.161 mi.

849 ft. Site 3 of 4 in cluster G

Actual: BEA:

751 ft. Secondary Address: Not reported

Focus Map: BEA Number: 1655

District: Lansing

Date Received: 11/07/2011

Submitter Name: Ardent Service Corporation

Petition Determination: No Request

Petition Disclosure: 0

Category: Not reported Determination 20107A: No Request Reviewer: cummingd

N/A

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

## 6200 NORTH DORT HIGHWAY (Continued)

S111333524

MI UST **MI INVENTORY** 

> **FINDS ECHO**

MI WDS

Division Assigned: RD

Secondary Address: Not reported BEA Number: 1666 District: Lansing Date Received: 12/19/2011

Submitter Name: Ardent Service Corporation

Petition Determination: No Request

Petition Disclosure:

Category: Not reported Determination 20107A: No Request Reviewer: cummingd Division Assigned: RD

G29 **US SIGN GROUP INC** RCRA-CESQG 1000465324 MID985599562 West 6200 N DORT HWY MI LUST

1/8-1/4 FLINT, MI 48505

0.161 mi.

849 ft. Site 4 of 4 in cluster G

Actual: 751 ft.

RCRA-CESQG: Focus Map:

Date form received by agency: 11/24/2003

Facility name: **US SIGN GROUP INC** Facility address: 6200 N DORT HWY

FLINT, MI 48505

EPA ID: MID985599562 Contact: GLENN CURRIER 6200 N DORT HWY Contact address:

FLINT, MI 48505

Contact country: US

Contact telephone: 810-789-8800 Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

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: JONES SIGN CO INC

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported

Direction Distance Elevation

ion Site Database(s) EPA ID Number

#### **US SIGN GROUP INC (Continued)**

1000465324

**EDR ID Number** 

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: DANNY C JONES Owner/operator address: Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported

Owner/operator fax:
Owner/operator extension:
Legal status:
Owner/Operator Type:
Owner
Owner/Op start date:
Owner/Op end date:
Not reported
Not reported
Owner
Owner
Not reported

Owner/operator name: APEX SIGN
Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 02/04/2003 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 No Used oil processor: 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

## Historical Generators:

Date form received by agency: 12/31/2002

Site name: US SIGN GROUP INC Classification: Not a generator, verified

Direction Distance

Elevation Site Database(s) EPA ID Number

## US SIGN GROUP INC (Continued)

1000465324

**EDR ID Number** 

Date form received by agency: 11/26/1990

Site name: US SIGN GROUP INC Classification: Small Quantity Generator

#### Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

LUST:

Facility ID: 00036141

Source: STATE OF MICHIGAN

Owner Name: Dan C Jones
Owner Address: 6200 N Dort Hwy
Owner City,St,Zip: Flint, MI 48505-2347
Owner Contact: Not reported
Owner Phone: (313) 787-9000

Country: USA
District: Lansing

Site Name: Jones Sign Co Inc Latitude: 43.09289 Longitude: -83.67454 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-1015-92Release Date:06/19/1992Substance Released:DieselRelease Status:OpenRelease Closed Date:Not reported

UST:

Facility Type: CLOSED
Facility ID: 00036141
Facility Region: 2

Owner Name: DAN C JONES

Owner Address: DAN C JONES

Owner Address: 6200 N DORT HWY

Owner City: **FLINT** Owner State: MI 48505-2347 Owner Zip: Owner Contact: Not reported Owner Phone: 3137879000 DAN C. JONES Contact: Contact Phone: (313) 787-9000 Date of Collection: 01/11/2001

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Elevation Site

Distance

Site Database(s) EPA ID Number

#### **US SIGN GROUP INC (Continued)**

1000465324

**EDR ID Number** 

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 1

Capacity: 2000

Tank Status: Removed from Ground

Substance: Diesel Install Date: Not reported 07/03/1992 Remove Date: Tank Number: UTK-075260-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Not reported Pipe Release Detection: Piping Material: Bare Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.09289
Longitude: -83.67454

INVENTORY:

Bea Number: 201101666LA
Township: Flint
District: Lansing
Data Source: BEA
Latitude: Not reported

Latitude: Not reported Longitude: Not reported

Bea Number: 201101655LA

Township: Flint
District: Lansing
Data Source: BEA
Latitude: Not report

Latitude: Not reported Longitude: Not reported

Bea Number: Not reported Township: Not reported District: Lansing Data Source: Part 213 Latitude: 43.0929 Longitude: -83.67455

FINDS:

Registry ID: 110003648152

Environmental Interest/Information System OSHA ESTABLISHMENT

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.

Direction Distance

Elevation Site Database(s) EPA ID Number

**US SIGN GROUP INC (Continued)** 

1000465324

**EDR ID Number** 

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

ECHO:

Envid: 1000465324 Registry ID: 110003648152

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003648152

WDS:

Site Id: MID985599562
WMD Id: 403934
Site Specific Name: APEX SIGN
Mailing Address: 6200 N DORT HWY

Mailing City/State/Zip: 48505 Mailing County: GENESEE

H30 6312 NORTH DORT HIGHWAY MI BEA S105254461

West 6312 NORTH DORT HIGHWAY N/A

1/8-1/4 FLINT, MI

0.161 mi.

851 ft. Site 1 of 3 in cluster H

Actual: BEA:

**750 ft.** Secondary Address: Not reported BEA Number: 623

Focus Map: BEA Number: 623
13 District: Lansing

Date Received: 03/22/2002

Submitter Name: Johnstons' Enterprises, LLC

Petition Determination: No Request

Petition Disclosure: 0

Category: Different Hazardous Substance(s)

Determination 20107A: No Request Reviewer: innesj

Division Assigned: Environmental Response Division

-

 H31
 HERITAGE CRYSTAL CLEAN LLC
 RCRA NonGen / NLR
 1004723692

 West
 6312 N DORT HWY
 FINDS
 MID985634971

1/8-1/4 FLINT, MI 48505

0.161 mi.

851 ft. Site 2 of 3 in cluster H
Actual: RCRA NonGen / NLR:

**750 ft.** Date form received by agency: 11/04/2004

Focus Map: Facility name: HERITAGE CRYSTAL CLEAN LLC

Facility address: 6312 N DORT HWY FLINT, MI 48505

EPA ID: FLIN 1, MI 48505 EPA ID: MID985634971

Mailing address: 3970 WEST 10TH STREET INDIANAPOLIS, IN 46222

Contact: MIKE CRAIGIN
Contact address: 6312 N DORT HWY

FLINT, MI 48505

Contact country: US

Contact telephone: 810-785-1269

**ECHO** 

Direction Distance Elevation

evation Site Database(s) EPA ID Number

## HERITAGE CRYSTAL CLEAN LLC (Continued)

1004723692

**EDR ID Number** 

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
Not reported
Owner/operator country:
Owner/operator telephone:
Owner/operator email:
Owner/operator fax:
Not reported
Not reported
Not reported
Not reported

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 11/05/2004
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 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator 11/05/2004 Owner/Op start date: 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: Nο 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

# Historical Generators:

Date form received by agency: 02/20/2003

Site name: HERITAGE CRYSTAL CLEAN LLC

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/24/1992

Site name: HERITAGE CRYSTAL CLEAN LLC

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **HERITAGE CRYSTAL CLEAN LLC (Continued)**

1004723692

Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

**IGNITABLE WASTE** Waste name:

Violation Status: No violations found

FINDS:

Registry ID: 110003668807

Environmental Interest/Information System

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.

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

ECHO:

1004723692 Envid: Registry ID: 110003668807

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003668807

MI UST 1000530969 H32 **MARTIN LEASING CO 6312 N DORT HWY** West N/A

1/8-1/4 FLINT, MI 48505 0.161 mi.

13

851 ft. Site 3 of 3 in cluster H

UST: Actual:

750 ft. Facility Type: ACTIVE Facility ID: 00035801 Focus Map:

Facility Region:

Owner Name: MARTIN LEASING CO Owner Address: 7300 CLYDE PARK SW **BYRON CENTER** Owner City:

Owner State: MI Owner Zip: 49315 Owner Contact: Not reported Owner Phone: 6164558850 Contact: Joel Collins Contact Phone: (800) 968-3188 Date of Collection: 09/17/2014 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Direction Distance

Elevation Site Database(s) EPA ID Number

## MARTIN LEASING CO (Continued)

1000530969

**EDR ID Number** 

District: Lansing District Office

 Tank ID:
 2

 Capacity:
 10000

Tank Status:

Substance:

Install Date:

Remove Date:

Tank Number:

Tank Details Compartments:

Diesel

12/17/1991

Not reported

UTK-025175-15

Tank Details Compartments:

Not reported

Tank Release Detection:

Pipe Release Detection:

Piping Material:

Automatic Tank Gauging, Groundwater Monitoring, Inventory Control

Automatic Line Leak Detectors, Line Tightness Testing, Other

Cathodically Protected, Double Walled, Fiberglass Reinforced Plastic

Piping Type: Pressure (Remote)

Tank Construction: Cathodically Protected Steel, Other

Impressed Device: N
Latitude: 43.07080
Longitude: -83.67274

Facility Type: ACTIVE Facility ID: 00035801

Facility Region: 2

Owner Name: MARTIN LEASING CO
Owner Address: 7300 CLYDE PARK SW
Owner City: BYRON CENTER

Owner State: MI Owner Zip: 49315 Owner Contact: Not reported Owner Phone: 6164558850 Contact: Joel Collins (800) 968-3188 Contact Phone: 09/17/2014 Date of Collection: Accuracy: 100

Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 1 Capacity: 10000

Tank Status: Currently In Use

Substance: Diesel
Install Date: 12/17/1991
Remove Date: Not reported
Tank Number: UTK-089226-15
Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging, Groundwater Monitoring, Inventory Control Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing, Other

Piping Material: Cathodically Protected, Fiberglass Reinforced Plastic

Piping Type: Pressure (Remote)

Tank Construction: Cathodically Protected Steel, Other

Impressed Device: Not reported Latitude: 43.07080 Longitude: -83.67274

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

133 **MICHIGAN FLEET REPAIR CO** RCRA-CESQG 1000241461 MID046378808

West 6512 N DORT HWY MI LUST 1/8-1/4 FLINT, MI 48505 MI UST

0.162 mi. **FINDS** 854 ft. Site 1 of 3 in cluster I **ECHO** MI AIRS

Actual: 751 ft.

RCRA-CESQG: Focus Map:

Date form received by agency: 03/01/2004

MICHIGAN FLEET REPAIR CO Facility name:

Facility address: 6512 N DORT HWY

FLINT, MI 48505

EPA ID: MID046378808 Contact: MARK MILTICH Contact address: 6512 N DORT HWY

FLINT, MI 48505

Contact country: US

810-787-2124 Contact telephone: Contact email: Not reported

EPA Region:

Conditionally Exempt Small Quantity Generator Classification:

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

MI WDS

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: MARK & SANDRA MILTICH

Owner/operator address: Not reported Not reported Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Not reported Owner/operator extension:

Private Legal status: Owner/Operator Type: Owner Owner/Op start date: 10/01/1987 Owner/Op end date: Not reported

Owner/operator name: MARK & SANDRA MILTICH

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Not reported Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## MICHIGAN FLEET REPAIR CO (Continued)

1000241461

**EDR ID Number** 

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/01/1987
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 No Underground injection activity: 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

Historical Generators:

Date form received by agency: 03/17/2003

Site name: MICHIGAN FLEET REPAIR CO

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 05/09/1986

Site name: MICHIGAN FLEET REPAIR CO
Classification: Small Quantity Generator

## Hazardous Waste Summary:

. Waste code: D001

Waste name: IGNITABLE WASTE

Violation Status: No violations found

LUST:

Facility ID: 00035647

Source: STATE OF MICHIGAN
Owner Name: Mark & Sandy Miltich
Owner Address: 6512 N Dort Hwy
Owner City,St,Zip: Flint, MI 48505-2353
Owner Contact: Not reported
Owner Phone: (313) 787-2124
Country: USA

District: Lansing

Site Name: Michigan Fleet Repair

 Latitude:
 43.10370

 Longitude:
 -83.67546

 Date of Collection:
 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83

Direction Distance

Elevation Site Database(s) EPA ID Number

## MICHIGAN FLEET REPAIR CO (Continued)

1000241461

**EDR ID Number** 

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-2288-91
Release Date: 10/28/1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: 05/27/1992

UST:

Facility Type: CLOSED Facility ID: 00035647

Facility Region:

Owner Name: MARK & SANDY MILTICH
Owner Address: 6512 N DORT HWY

 Owner City:
 FLINT

 Owner State:
 MI

 Owner Zip:
 48505-2353

 Owner Contact:
 Not reported

 Owner Phone:
 3137872124

 Contact:
 MARK MILTICH

 Contact Phone:
 (313) 787-2124

 Date of Collection:
 01/11/2001

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 3 Capacity: 8000

Tank Status: Removed from Ground

Substance: Diesel Install Date: 01/01/1960 11/01/1991 Remove Date: UTK-024017-15 Tank Number: Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Bare Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.10370 Longitude: -83.67546

Facility Type: CLOSED Facility ID: 00035647

Facility Region: 2

Owner Name: MARK & SANDY MILTICH
Owner Address: 6512 N DORT HWY

Owner City: FLINT
Owner State: MI

 Owner Zip:
 48505-2353

 Owner Contact:
 Not reported

 Owner Phone:
 3137872124

Direction Distance

Elevation Site Database(s) EPA ID Number

# MICHIGAN FLEET REPAIR CO (Continued)

1000241461

**EDR ID Number** 

Contact: MARK MILTICH
Contact Phone: (313) 787-2124
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 2000

Tank Status: Removed from Ground

Substance: Used Oil Install Date: 01/01/1960 11/01/1991 Remove Date: UTK-100454-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Bare Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.10370 Longitude: -83.67546

Facility Type: CLOSED
Facility ID: 00035647

Facility Region: 2

Owner Name: MARK & SANDY MILTICH
Owner Address: 6512 N DORT HWY

 Owner City:
 FLINT

 Owner State:
 MI

 Owner Zip:
 48505-2353

 Owner Contact:
 Not reported

 Owner Phone:
 3137872124

 Contact:
 MARK MILTICH

Contact Phone: (313) 787-2124
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID:

Capacity: 550

Tank Status: Removed from Ground

Substance: Used Oil
Install Date: 01/01/1960
Remove Date: 11/01/1991
Tank Number: UTK-008607-15
Tank Details Compartments: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## MICHIGAN FLEET REPAIR CO (Continued)

1000241461

**EDR ID Number** 

Tank Release Detection:
Pipe Release Detection:
Piping Material:
Piping Type:
Not reported
Bare Steel
Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.10370 Longitude: -83.67546

FINDS:

Registry ID: 110003594511

Environmental Interest/Information System

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.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000241461 Registry ID: 110003594511

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003594511

AIRS:

Name: MICHIGAN FLEET REPAIR COMPANY

Address: 6512 N DORT HIGHWAY

City, State, Zip: FLINT, MI 48505

State Registration Number: B8579
Naics Code: Not reported
Contact Email: Not reported
Contact Name: Not reported
Contact Phone: Not reported

Contact Address: (same as site address)

Contact City, St, Zip: Not reported Permit Number: 136-81 02/23/1981 Date Received: Application Reason: Not reported Record Type: Not reported State County FIPS: Not reported Facility Category: Not reported SIC Primary: Not reported Tribal Code: Not reported Facility Status Code: Not reported Facility Status: Active Supplemental Location Text: Not reported **Business Name:** Not reported Principal Product: Not reported Principal Product Description: Not reported

UTM Zone (Geo Coordinates Universal Transverse Mercator System):

Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## MICHIGAN FLEET REPAIR CO (Continued)

1000241461

**UTM Horizontal Coord:** Not reported **UTM Vertical Coord:** Not reported Not reported Mailing Name: Mailing Contact Person: Not reported Mailing Street: Not reported Mailing City: Not reported Mailing State: Not reported Mailing Zip: Not reported Mailing Zip 4 Extension: Not reported Compliance Person: Not reported Compliance Area Code: Not reported Compliance Phone Number: Not reported Emission Inventory Contact Person: Not reported El Contact Area Code: Not reported El Contact Phone Number: Not reported Permit Contact Person: Not reported Permit Contact Person Area Code: Not reported Permit Contact Person Phone Number: Not reported Federal Employer Id Number: Not reported # Of Employees: Not reported Reporting Year: Not reported Date Record Was Created: Not reported

WDS:

MID046378808 Site Id: WMD Id: 395726

Site Specific Name: MICHIGAN FLEET REPAIR CO

Mailing Address: 6512 N DORT HWY

Mailing City/State/Zip: 48505 Mailing County: **GENESEE** 

J34 **DORT HWY. GAS & MART INC.** 

West 7030 N DORT HWY FLINT, MI 48505 1/8-1/4

0.162 mi.

858 ft. Site 1 of 4 in cluster J

Actual: LUST:

755 ft. Facility ID: 00004166

Source: STATE OF MICHIGAN Focus Map: Owner Name: Dort Hwy 200 Inc 13

7030 N Dort Hwy Owner Address: Owner City, St, Zip: Flint, MI 48505 Owner Contact: Not reported Owner Phone: (810) 785-1731 Country: USA

District: Lansing Sun Northside, #6 Site Name: 43.07482 Latitude: Longitude: -83.67393 Date of Collection: 10/05/2004

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT** 

Plant Entrance (Freight) Desc Category:

1000451783

N/A

MI LUST

MI INVENTORY

MI UST

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

## **DORT HWY. GAS & MART INC. (Continued)**

1000451783

**EDR ID Number** 

Leak Number: C-0615-90 04/09/1990 Release Date: Substance Released: Not reported Release Status: Closed Release Closed Date: 06/17/1999

Leak Number: C-1303-85 09/14/1989 Release Date: Substance Released: Not reported Release Status: Closed Release Closed Date: 06/18/1999

UST:

ACTIVE Facility Type: Facility ID: 00004166

Facility Region: 2

Owner Name: DORT HWY 200 INC Owner Address: 7030 N DORT HWY

Owner City: **FLINT** Owner State: MI 48505 Owner Zip: Not reported Owner Contact: 8107851731 Owner Phone: Contact: Mahmoud Ajami (313) 999-7149 Contact Phone: Date of Collection: 10/05/2004 Accuracy: 100 Horizontal Datum: NAD83

Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Lansing District Office District: 9

Tank ID:

4000 Capacity:

Tank Status: Removed from Ground

Substance: Gasoline 01/01/1952 Install Date: 02/27/1992 Remove Date: UTK-012673-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Bare Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07482 Longitude: -83.67393

Facility Type: **ACTIVE** Facility ID: 00004166

Facility Region: Owner Name:

DORT HWY 200 INC 7030 N DORT HWY Owner Address:

Owner City: **FLINT** Owner State: MI

Direction Distance

Elevation Site Database(s) EPA ID Number

## DORT HWY. GAS & MART INC. (Continued)

Accuracy Value Unit:

1000451783

**EDR ID Number** 

Owner Zip: 48505 Not reported Owner Contact: Owner Phone: 8107851731 Contact: Mahmoud Ajami Contact Phone: (313) 999-7149 10/05/2004 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

FEET

District: Lansing District Office

Tank ID: 8 Capacity: 4000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 01/01/1952 02/27/1992 Remove Date: Tank Number: UTK-026691-15 Not reported Tank Details Compartments: Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Bare Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07482 Longitude: -83.67393

Facility Type: ACTIVE Facility ID: 00004166

Facility Region: 2

Owner Name: DORT HWY 200 INC
Owner Address: 7030 N DORT HWY

Owner City: **FLINT** Owner State: MI 48505 Owner Zip: Owner Contact: Not reported 8107851731 Owner Phone: Contact: Mahmoud Ajami Contact Phone: (313) 999-7149 10/05/2004 Date of Collection: Accuracy: 100

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 7
Capacity: 6000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## DORT HWY. GAS & MART INC. (Continued)

1000451783

**EDR ID Number** 

Remove Date: 02/27/1992
Tank Number: UTK-006548-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07482 Longitude: -83.67393

Facility Type: ACTIVE Facility ID: 00004166

Facility Region: 2

Owner Name: DORT HWY 200 INC Owner Address: 7030 N DORT HWY

**FLINT** Owner City: Owner State: MI 48505 Owner Zip: Owner Contact: Not reported 8107851731 Owner Phone: Contact: Mahmoud Aiami Contact Phone: (313) 999-7149 10/05/2004 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 6 Capacity: 8000

Tank Status: Removed from Ground Substance: Gasoline

Install Date: Not reported 02/27/1992 Remove Date: UTK-003437-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Not reported Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07482 Longitude: -83.67393

Facility Type: ACTIVE
Facility ID: 00004166
Facility Region: 2

Owner Name: DORT HWY 200 INC
Owner Address: 7030 N DORT HWY

Owner City: FLINT
Owner State: MI

Direction Distance

Elevation Site Database(s) EPA ID Number

## DORT HWY. GAS & MART INC. (Continued)

Accuracy Value Unit:

1000451783

**EDR ID Number** 

Owner Zip: 48505 Not reported Owner Contact: Owner Phone: 8107851731 Contact: Mahmoud Ajami Contact Phone: (313) 999-7149 10/05/2004 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

FEET

District: Lansing District Office

Tank ID: 5 Capacity: 550

Tank Status: Removed from Ground

Used Oil Substance: Install Date: 05/02/1969 10/01/1990 Remove Date: Tank Number: UTK-061201-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07482 Longitude: -83.67393

Facility Type: ACTIVE Facility ID: 00004166

Facility Region: 2

Owner Name: DORT HWY 200 INC
Owner Address: 7030 N DORT HWY

Owner City: **FLINT** Owner State: MI 48505 Owner Zip: Owner Contact: Not reported 8107851731 Owner Phone: Contact: Mahmoud Ajami Contact Phone: (313) 999-7149 10/05/2004 Date of Collection: Accuracy: 100

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 4 Capacity: 8000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 05/02/1969

Direction Distance Elevation

evation Site Database(s) EPA ID Number

## DORT HWY. GAS & MART INC. (Continued)

1000451783

**EDR ID Number** 

Remove Date: 10/01/1990
Tank Number: UTK-006547-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07482 Longitude: -83.67393

Facility Type: ACTIVE Facility ID: 00004166

Facility Region: 2

Owner Name: DORT HWY 200 INC Owner Address: 7030 N DORT HWY

**FLINT** Owner City: Owner State: MI 48505 Owner Zip: Owner Contact: Not reported 8107851731 Owner Phone: Contact: Mahmoud Aiami Contact Phone: (313) 999-7149 10/05/2004 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 3 Capacity: 8000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 05/02/1969 10/01/1990 Remove Date: UTK-022130-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07482 Longitude: -83.67393

Facility Type: ACTIVE
Facility ID: 00004166
Facility Region: 2

Owner Name: DORT HWY 200 INC
Owner Address: 7030 N DORT HWY

Owner City: FLINT
Owner State: MI

Direction Distance

Elevation Site Database(s) EPA ID Number

## DORT HWY. GAS & MART INC. (Continued)

Accuracy Value Unit:

1000451783

**EDR ID Number** 

Owner Zip: 48505 Not reported Owner Contact: Owner Phone: 8107851731 Contact: Mahmoud Ajami Contact Phone: (313) 999-7149 10/05/2004 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

FEET

District: Lansing District Office

Tank ID: 2 Capacity: 8000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 05/02/1970 10/01/1990 Remove Date: Tank Number: UTK-006545-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07482 Longitude: -83.67393

Facility Type: ACTIVE Facility ID: 00004166

Facility Region: 2

Owner Name: DORT HWY 200 INC
Owner Address: 7030 N DORT HWY

Owner City: **FLINT** Owner State: MI 48505 Owner Zip: Owner Contact: Not reported 8107851731 Owner Phone: Contact: Mahmoud Ajami Contact Phone: (313) 999-7149 10/05/2004 Date of Collection: Accuracy: 100

Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 13
Capacity: 10000
Tank Status: Curren

Tank Status: Currently In Use Substance: Diesel Install Date: 11/15/1990

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **DORT HWY. GAS & MART INC. (Continued)**

1000451783

Remove Date: Not reported UTK-026196-15 Tank Number: Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing, Other

Double Walled, Fiberglass Reinforced Plastic Piping Material:

Pressure (Remote) Piping Type:

Tank Construction: Fiberglass Reinforced Plastic, Other

Impressed Device: Not reported Latitude: 43.07482 Longitude: -83.67393

ACTIVE Facility Type: Facility ID: 00004166

Facility Region:

DORT HWY 200 INC Owner Name: Owner Address: 7030 N DORT HWY

**FLINT** Owner City: Owner State: MI 48505 Owner Zip: Owner Contact: Not reported 8107851731 Owner Phone: Contact: Mahmoud Aiami Contact Phone: (313) 999-7149 10/05/2004 Date of Collection: 100 Accuracy: Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Address Matching-House Number Method of Collection:

District: Lansing District Office

Tank ID: 12 10000 Capacity:

Tank Status: Currently In Use Substance: Gasoline Install Date: 11/15/1990 Remove Date: Not reported UTK-051832-15 Tank Number: Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing, Other

Piping Material: Double Walled, Fiberglass Reinforced Plastic

Piping Type: Pressure (Remote)

Tank Construction: Fiberglass Reinforced Plastic, Other

Impressed Device: Not reported 43.07482 Latitude: -83.67393 Longitude:

> Click this hyperlink while viewing on your computer to access 3 additional MI\_UST: record(s) in the EDR Site Report.

Facility Type: **ACTIVE** Facility ID: 00004166

Facility Region:

Owner Name: DORT HWY 200 INC

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **DORT HWY. GAS & MART INC. (Continued)**

1000451783

7030 N DORT HWY Owner Address:

**FLINT** Owner City: Owner State: MI Owner Zip: 48505 Owner Contact: Not reported Owner Phone: 8107851731 Mahmoud Ajami Contact: Contact Phone: (313) 999-7149 Date of Collection: 10/05/2004 Accuracy: 100 Horizontal Datum: NAD83

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Accuracy Value Unit:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**FEET** 

Lansing District Office District:

Tank ID: 11 Capacity: 10000

Currently In Use Tank Status: Substance: Gasoline Install Date: 11/15/1990 Remove Date: Not reported UTK-051825-15 Tank Number: Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing, Other

Piping Material: Double Walled, Fiberglass Reinforced Plastic

Piping Type: Pressure (Remote)

Tank Construction: Fiberglass Reinforced Plastic, Other

Not reported Impressed Device: Latitude: 43.07482 Longitude: -83.67393

INVENTORY:

Bea Number: Not reported Not reported Township: District: Lansing Data Source: Part 213 43.07483 Latitude: Longitude: -83.67393

**SUNOCO INC** RCRA-CESQG 1004723166 7030 N DORT HWY **FINDS** MID985583004

West 1/8-1/4 FLINT, MI 48505

0.162 mi.

J35

858 ft. Site 2 of 4 in cluster J

RCRA-CESQG: Actual:

755 ft. Date form received by agency: 07/16/1990 SUNOCO INC Facility name: Focus Map: Facility address: 7030 N DORT HWY FLINT, MI 48505

> EPA ID: MID985583004

Mailing address: 1801 MARKET ST RISK MGT

PHILADELPHIA, PA 19103

Contact: SUSAN HICKEY **ECHO** 

Direction Distance Elevation

evation Site Database(s) EPA ID Number

SUNOCO INC (Continued) 1004723166

Contact address: 7030 N DORT HWY

FLINT, MI 48505

Contact country: US

Contact telephone: 610-941-9054 Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

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: SUN COMPANY INC ( R & M )

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private

Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: SUN COMPANY INC ( R & M )

Owner/operator address: Not reported Not reported Owner/operator country: Not reported

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private 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

**EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

SUNOCO INC (Continued) 1004723166

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

Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110009601216

Environmental Interest/Information System

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.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004723166 Registry ID: 110009601216

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110009601216

J36 DORT HWY 200 INC MI AUL S113406527
West 7030 NORTH DORT HIGHWAY N/A

1/8-1/4 FLINT, MI 48505

0.162 mi.

858 ft. Site 3 of 4 in cluster J

Actual: AUL:

**755 ft.** Name: DORT HWY 200 INC

Focus Map: Address: 7030 NORTH DORT HIGHWAY

City,State,Zip: FLINT, MI 48505
Status: Recorded
Site Name: Not reported
Property: Dort Hwy 200 Inc

Land Use Restriction Type:

Program Type:

Program Support Assigned User:

Program Support Assigned Date:

Program Support Assigned Date:

User:

Program Support Assigned Date:

User:

**EDR ID Number** 

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**DORT HWY 200 INC (Continued)** 

S113406527

MDEQ Reference Number: NCA-RRD-213-05-027

Property Or Description Restricted Area: Migrated Lead Division: STD

File Name Of Hyperlinked Legal Doc: U:\\KERMIT\\12121305027.PDF

Mapped Polygons Area In Acres: 0.65780000000000005

Mapped Polygons Area In Square Miles: 0.001 Date Data Entry Started: 04/26/2013 Date Data Entry Finished: 04/26/2013 Individual Or Staff Assoc With The Mapping: Nicholas Ekel Program Used To Map Restricted Features: ArcGIS 10.1 06/22/1999 Date Legal Paperwork Stamped/Filed/Register Of Deeds:

Commercial I Land Use Restriction: 0 Commercial li Land Use Restriction: 0 Commercial lii Land Use Restriction: 1 Commercial Iv Land Use Restriction: 1 Industrial Land Use Restriction: 0 Residential Land Use Restriction: 0 Recreational Land Use Restriction: 0 Multiple Land-Use Restrictions: 0 0 Site Specific Restrictions: **Groundwater Consumption Restrictions:** 0 **Groundwater Contact Restrictions:** 0 Special Well Construction Requirements: 0 Special Building Restrictions: 0 Excavation And Soil Movement Restrictions: 0 Soil Movement Requirements: 0 There Is A Restriction On All Construction: 0 Monitoring Well Protected, No Tampering Or Removal: 0 0 There Is An Exposure Barrier In Place: 0 There Is A Health And Safety Plan: There Is A Permanent Marker On The Site: 0

Comment: Request received on 6/16/2005

Map Comments: 20120404 - LRUR is NOT mapped in KERMIT - Nick Ekel 20130424 - LRUR is

updated with a recorded copy - Nick Ekel 20130426 - LRUR is mapped in

MI INVENTORY

KERMIT - Nick Ekel

5000, 5022, AND 5030 NORTH DORT HIGHWAY 37 WNW **5000, 5022, AND 5030 NORTH DORT HIGHWAY** 

1/8-1/4 **GENESEE** (County), MI

0.163 mi. 863 ft.

Actual: INVENTORY:

743 ft. Bea Number: 200601119LA Township:

Focus Map:

District: Lansing Data Source: **BEA** 43.05865 Latitude: Longitude: -83.67256

Flint

S114024259

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

E38 KURTZ GRAVEL CO MI AUL S109846379
West 5300 NORTH DORT HIGHWAY N/A

KURTZ GRAVEL CO

5300 NORTH DORT HIGHWAY

West 5300 NORTH DORT HIGH 1/8-1/4 FLINT, MI 48505

0.165 mi.

872 ft. Site 2 of 7 in cluster E

Actual: AUL: 750 ft. Name:

Focus Map: Address:

Focus Map: 13

City,State,Zip: FLINT, MI 48505
Status: Recorded
Site Name: Not reported
Property: Kurtz Gravel Co
Land Use Restriction Type: NCA

Program Type:
Program Support Assigned User:
Program Support Assigned Date:
Program Support Assigned Date:
Usegal Description Of Property:

Based On The Deq Ref #:

MIGRATION 1991
Migrated
MDEQ Reference Number:

NCA-RRD-213-05-024

Property Or Description Restricted Area: Migrated Lead Division: STD

File Name Of Hyperlinked Legal Doc: U:\KERMIT\\12121305024.PDF

Mapped Polygons Area In Acres: 11.4535

Mapped Polygons Area In Square Miles: 0.0178

Date Data Entry Started: 05/18/2011

Date Data Entry Finished: 05/18/2011

Individual Or Staff Assoc With The Mapping: Nicholas Ekel

Program Used To Map Restricted Features: ArcINFO 9.3 & IcoMAP 4.2

Date Legal Paperwork Stamped/Filed/Register Of Deeds: 03/19/1997

Commercial I Land Use Restriction: 0 Commercial li Land Use Restriction: 0 Commercial lii Land Use Restriction: 0 Commercial Iv Land Use Restriction: 0 Industrial Land Use Restriction: 1 Residential Land Use Restriction: 0 Recreational Land Use Restriction: 0 Multiple Land-Use Restrictions: 0 Site Specific Restrictions: 0 **Groundwater Consumption Restrictions:** 0 **Groundwater Contact Restrictions:** 0 Special Well Construction Requirements: 0 Special Building Restrictions: 0 Excavation And Soil Movement Restrictions: 0 Soil Movement Requirements: 0 There Is A Restriction On All Construction: 0 Monitoring Well Protected, No Tampering Or Removal: 0 There Is An Exposure Barrier In Place: 0 There Is A Health And Safety Plan: 0 There Is A Permanent Marker On The Site: 0

Comment: Request received on 6/16/2005

Map Comments: 20100916 - LRUR is NOT mapped in KERMIT - Nick Ekel 20110518 - LRUR is

mapped in KERMIT - Nick Ekel

**EDR ID Number** 

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

E39 **KURTZ GRAVEL CO** MI LUST 1004882765 West 5300 N DORT HWY MI UST N/A **MI INVENTORY** 

1/8-1/4 FLINT, MI 48505 0.165 mi.

872 ft. Site 3 of 7 in cluster E

LUST: Actual: 750 ft.

Facility ID: 00000761 STATE OF MICHIGAN Source: Focus Map:

Owner Name: Kurtz Gravel Co 13 Owner Address: G-5300 N Dort Hwy Owner City, St, Zip: Flint, MI 48505-1833 Owner Contact: Not reported

(810) 787-6543 Owner Phone: Country: USA

District: Lansing Site Name: Kurtz Gravel Co Latitude: 43.08527 Lonaitude: -83.67427 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-0188-97 Release Date: 03/29/1997 Substance Released: Unknown Release Status: Closed Release Closed Date: 08/21/1997

Leak Number: C-0201-91 Release Date: 02/11/1991 Substance Released: Not reported Release Status: Closed Release Closed Date: 12/05/1995

Leak Number: C-0205-96 04/06/1996 Release Date: Substance Released: Unknown Release Status: Closed Release Closed Date: 07/19/1996

UST:

Owner City:

Facility Type: CLOSED Facility ID: 00000761

Facility Region:

KURTZ GRAVEL CO Owner Name: 5300 N DORT HWY Owner Address:

**FLINT** 

Owner State: MI Owner Zip: 48505-1833 Owner Contact: Not reported Owner Phone: 8107876543 Contact: Not reported Contact Phone: Not reported Date of Collection: Not reported Accuracy: Not reported

Direction Distance Elevation

vation Site Database(s) EPA ID Number

## **KURTZ GRAVEL CO (Continued)**

1004882765

**EDR ID Number** 

Horizontal Datum: Not reported Not reported Accuracy Value Unit: Not reported Source: Point Line Area: Not reported Desc Category: Not reported Method of Collection: Not reported Not reported District: 7DIESEL Tank ID: Capacity: 4000

Tank Status: Removed from Ground

Substance: Diesel
Install Date: 04/04/1976
Remove Date: 04/01/1996
Tank Number: UTK-064359-15
Tank Details Compartments: Not reported

Tank Release Detection: Inventory Control, Manual (Static) Tank Gauging

Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device:Not reportedLatitude:Not reportedLongitude:Not reported

Facility Type: CLOSED Facility ID: 00000761

Facility Region:

Owner Name: KURTZ GRAVEL CO
Owner Address: 5300 N DORT HWY

Owner City: FLINT Owner State: MI

48505-1833 Owner Zip: Owner Contact: Not reported Owner Phone: 8107876543 Not reported Contact: Contact Phone: Not reported Date of Collection: Not reported Accuracy: Not reported Horizontal Datum: Not reported Accuracy Value Unit: Not reported Source: Not reported Not reported Point Line Area: Desc Category: Not reported Not reported Method of Collection: Not reported District: Tank ID: 6DIESEL Capacity: 6000

Tank Status: Removed from Ground

Substance: Diesel
Install Date: 04/04/1976
Remove Date: 04/01/1996
Tank Number: UTK-021032-15
Tank Details Compartments: Not reported

Tank Release Detection: Inventory Control, Manual (Static) Tank Gauging

Pipe Release Detection:
Piping Material:
Piping Type:
Not reported
Galvanized Steel
Not reported

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

## **KURTZ GRAVEL CO (Continued)**

1004882765

**EDR ID Number** 

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: Not reported Longitude: Not reported

Facility Type: CLOSED
Facility ID: 00000761
Facility Region: 2

Owner Name: KURTZ GRAVEL CO
Owner Address: 5300 N DORT HWY

 Owner City:
 FLINT

 Owner State:
 MI

 Owner Zip:
 48505-1833

Owner Contact: Not reported 8107876543 Owner Phone: Contact: Not reported Contact Phone: Not reported Date of Collection: Not reported Accuracy: Not reported Horizontal Datum: Not reported Accuracy Value Unit: Not reported Source: Not reported Point Line Area: Not reported Desc Category: Not reported Not reported Method of Collection: District: Not reported 5DIESEL Tank ID: Capacity: 10000

Tank Status: Removed from Ground

Substance: Diesel
Install Date: 04/04/1956
Remove Date: 04/01/1996
Tank Number: UTK-003615-15
Tank Details Compartments: Not reported

Tank Release Detection: Inventory Control, Manual (Static) Tank Gauging

Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device:Not reportedLatitude:Not reportedLongitude:Not reported

Facility Type: CLOSED Facility ID: 00000761

Facility Region: 2

Owner Name: KURTZ GRAVEL CO
Owner Address: 5300 N DORT HWY

Owner City: **FLINT** Owner State: MI Owner Zip: 48505-1833 Owner Contact: Not reported 8107876543 Owner Phone: Contact: JAMES DOYLE Contact Phone: (810) 238-9190 Date of Collection: 01/11/2001

Accuracy: 100

Direction Distance Elevation

vation Site Database(s) EPA ID Number

## **KURTZ GRAVEL CO (Continued)**

1004882765

**EDR ID Number** 

Horizontal Datum: NAD83 Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 4 Capacity: 3000

Tank Status: Removed from Ground

Substance: Used Oil
Install Date: 04/05/1971
Remove Date: 02/11/1991
Tank Number: UTK-079091-15
Tank Details Compartments: Not reported

Tank Release Detection: Inventory Control, Manual (Static) Tank Gauging

Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device:Not reportedLatitude:43.08527Longitude:-83.67427

Facility Type: CLOSED Facility ID: 00000761

Facility Region:

Owner Name: KURTZ GRAVEL CO
Owner Address: 5300 N DORT HWY

Owner City: FLINT
Owner State: MI
Owner Zip: 48505

48505-1833 Owner Contact: Not reported Owner Phone: 8107876543 Not reported Contact: Contact Phone: Not reported Date of Collection: Not reported Accuracy: Not reported Horizontal Datum: Not reported Accuracy Value Unit: Not reported Source: Not reported Not reported Point Line Area: Desc Category: Not reported Not reported Method of Collection: District: Not reported 3OIL Tank ID: Capacity: 550

Tank Status:

Substance:
Other(30 W OIL)
Install Date:
O4/05/1983
Remove Date:
O2/11/1991
Tank Number:
UTK-092039-15
Tank Details Compartments:
Not reported

Tank Release Detection: Inventory Control, Manual (Static) Tank Gauging

Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

## **KURTZ GRAVEL CO (Continued)**

1004882765

**EDR ID Number** 

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Not reported Latitude: Longitude: Not reported

Facility Type: **CLOSED** Facility ID: 00000761 Facility Region:

Owner Name: KURTZ GRAVEL CO Owner Address: 5300 N DORT HWY

**FLINT** Owner City: Owner State: MI

48505-1833 Owner Zip: Owner Contact: Not reported 8107876543 Owner Phone: Not reported Contact: Contact Phone: Not reported Date of Collection: Not reported Accuracy: Not reported Horizontal Datum: Not reported Accuracy Value Unit: Not reported Source: Not reported Point Line Area: Not reported Desc Category: Not reported Not reported Method of Collection: District: Not reported 2REGULAR Tank ID: Capacity: 4000

Removed from Ground Tank Status:

Substance: Gasoline Install Date: 04/04/1976 Remove Date: 08/28/1990 Tank Number: UTK-044684-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Asphalt Coated or Bare Steel Tank Construction:

Impressed Device: Not reported Latitude: Not reported Longitude: Not reported

**CLOSED** Facility Type: Facility ID: 00000761

Facility Region:

Owner Name: KURTZ GRAVEL CO Owner Address: 5300 N DORT HWY

Owner City: **FLINT** Owner State: MI Owner Zip: 48505-1833 Owner Contact: Not reported 8107876543 Owner Phone: Contact: Not reported Contact Phone: Not reported Date of Collection: Not reported Accuracy: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## **KURTZ GRAVEL CO (Continued)**

1004882765

**EDR ID Number** 

Horizontal Datum: Not reported Not reported Accuracy Value Unit: Source: Not reported Point Line Area: Not reported Desc Category: Not reported Method of Collection: Not reported Not reported District: 1NOLEAD Tank ID: Capacity: 4000

Tank Status: Removed from Ground

Substance: Gasoline
Install Date: 04/05/1971
Remove Date: 04/01/1996
Tank Number: UTK-025407-15
Tank Details Compartments: Not reported

Tank Release Detection: Inventory Control, Manual (Static) Tank Gauging

Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: Not reported Longitude: Not reported

Facility Type: CLOSED Facility ID: 00000761

Facility Region:

Owner Name: KURTZ GRAVEL CO
Owner Address: 5300 N DORT HWY

 Owner City:
 FLINT

 Owner State:
 MI

 Owner Zip:
 48505-1833

 Owner Contact:
 Not reported

 Owner Phone:
 8107876543

 Contact:
 JAMES DOYLE

Contact Phone: (810) 238-9190
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 1

Capacity: 10000

Tank Status: Removed from Ground

Substance: Diesel

Install Date: Not reported 04/01/1996 Remove Date: Tank Number: UTK-038621-15 Not reported Tank Details Compartments: Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**KURTZ GRAVEL CO (Continued)** 

1004882765

Tank Construction: Unknown Not reported Impressed Device: Latitude: 43.08527 Longitude: -83.67427

INVENTORY:

Bea Number: Not reported Township: Not reported District: Lansing Data Source: Part 213 Latitude: 43.08528 Longitude: -83.67427

1000253481 40 **BUCKEYE TERMINALS LLC** RCRA-CESQG West **G5340 N DORT HWY** MI LUST MID055663314 1/8-1/4 FLINT, MI 48505 MI UST

0.165 mi. 873 ft.

Actual: RCRA-CESQG:

Contact:

749 ft. Date form received by agency: 09/01/2008

Facility name: BUCKEYE TERMINALS LLC Focus Map: Facility address: G5340 N DORT HWY 13

FLINT, MI 48505

EPA ID: MID055663314 Mailing address:

9999 HAMILTON BLVD BREINGSVILLE, PA 18031

SABRINA KONNICK G5340 N DORT HWY

Contact address: FLINT, MI 48505

Contact country: US

Contact telephone: 610-904-4213 Not reported Contact email:

EPA Region: 05 Private Land type:

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

> 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

month, and accumulates 1000 kg or less of hazardous waste at any time;

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: **BUCKEYE TERMINALS LLC** 

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Map ID MAP FINDINGS
Direction

Distance Elevation S

Site Database(s) EPA ID Number

**BUCKEYE TERMINALS LLC (Continued)** 

1000253481

**EDR ID Number** 

Owner/operator email:

Owner/operator fax:

Owner/operator extension:

Legal status:

Owner/Operator Type:

Owner/Operator Type:

Owner/Op start date:

Owner/Op end date:

Not reported

Not reported

Other ported

Operator

O1/16/2007

Not reported

Owner/operator name: BUCKEYE TERMINALS LLC

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Private Legal status: Owner/Operator Type: Owner Owner/Op start date: 01/16/2007 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 Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

**Historical Generators:** 

Date form received by agency: 04/29/2008

Site name: BUCKEYE TERMINALS LLC Classification: Large Quantity Generator

Date form received by agency: 03/01/2008

Site name: BUCKEYE TERMINALS LLC Classification: Large Quantity Generator

Date form received by agency: 02/13/2008

Site name: BUCKEYE TERMINALS LLC Classification: Large Quantity Generator

Date form received by agency: 02/07/2007

Site name: BUCKEYE TERMINALS LLC Classification: Small Quantity Generator

Date form received by agency: 01/22/2007

Direction Distance

Elevation Site Database(s) EPA ID Number

## **BUCKEYE TERMINALS LLC (Continued)**

1000253481

**EDR ID Number** 

Site name: BUCKEYE TERMINALS LLC Classification: Large Quantity Generator

Date form received by agency: 03/24/2006

Site name: BUCKEYE TERMINALS LLC Classification: Large Quantity Generator

Date form received by agency: 03/01/2006

Site name: EXXONMOBIL OIL CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 03/15/2005

Site name: BUCKEYE TERMINALS LLC Classification: Large Quantity Generator

Date form received by agency: 12/31/2004

Site name: BUCKEYE TERMINALS LLC Classification: Large Quantity Generator

Date form received by agency: 03/01/2004

Site name: EXXONMOBIL OIL CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 02/26/2004

Site name: BUCKEYE TERMINALS LLC Classification: Large Quantity Generator

Date form received by agency: 05/29/2002

Site name: BUCKEYE TERMINALS LLC Classification: Large Quantity Generator

Date form received by agency: 10/05/2001

Site name: BUCKEYE TERMINALS LLC Classification: Not a generator, verified

Date form received by agency: 10/01/1990

Site name: MOBIL OIL CORP FLINT TERM Classification: Large Quantity Generator

Date form received by agency: 08/18/1980

Site name: BUCKEYE TERMINALS LLC Classification: Small Quantity Generator

#### Hazardous Waste Summary:

Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

**Evaluation Action Summary:** 

Evaluation date: 09/09/2005

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

# **BUCKEYE TERMINALS LLC (Continued)**

1000253481

**EDR ID Number** 

Evaluation date: 04/06/1993

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Not reported Area of violation: Date achieved compliance: Not reported Evaluation lead agency: State

LUST:

Facility ID: 00017255

Source: STATE OF MICHIGAN Owner Name: ExxonMobil Oil Corporation

Owner Address: C/o Gilbarco Veeder-Root 7300 W Friendly Ave / Po Box 22087

Owner City, St, Zip: Greensboro, NC 27420-2087

Owner Contact: CMS Mailstop F-76 Owner Phone: (800) 253-8054

Country: USA District: Lansing Mobil Oil Corp Site Name: Latitude: 43.08480 Longitude: -83.67426 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-0234-06 Release Date: 12/12/2013

Substance Released: Gasoline, Diesel, Gasoline, Other, Other, Gasoline

Release Status: Open Release Closed Date: Not reported

UST:

Facility Type: **CLOSED** Facility ID: 00017255

Facility Region:

Owner Name: **EXXONMOBIL OIL CORPORATION** 

C/O GILBARCO VEEDER-ROOT 7300 W FRIENDLY AVE / PO BOX 22087 Owner Address:

**GREENSBORO** Owner City:

NC Owner State: Owner Zip:

27420-2087 Owner Contact: Not reported Owner Phone: 8002538054 Tom Bess Jr Contact: Contact Phone: (810) 789-9180 Date of Collection: 01/11/2001 Accuracy: 100

Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 6 Capacity: 2000

Tank Status: Removed from Ground

Direction Distance

Elevation Site Database(s) EPA ID Number

## **BUCKEYE TERMINALS LLC (Continued)**

1000253481

**EDR ID Number** 

Substance: Diesel Install Date: 04/29/1959 Remove Date: 05/01/1985 Tank Number: UTK-020622-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Not reported Pipe Release Detection: Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08480 Longitude: -83.67426

Facility Type: CLOSED Facility ID: 00017255

Facility Region: 2

Owner Name: EXXONMOBIL OIL CORPORATION

Owner Address: C/O GILBARCO VEEDER-ROOT 7300 W FRIENDLY AVE / PO BOX 22087

Owner City: GREENSBORO

Owner State: NC

27420-2087 Owner Zip: Owner Contact: Not reported Owner Phone: 8002538054 Contact: Tom Bess Jr Contact Phone: (810) 789-9180 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83 FEET Accuracy Value Unit:

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Gasoline

District: Lansing District Office

Tank ID: 5 Capacity: 4000

Substance:

Tank Status: Removed from Ground

04/28/1982 Install Date: Remove Date: 12/01/1993 UTK-064495-15 Tank Number: Tank Details Compartments: Not reported Not reported Tank Release Detection: Not reported Pipe Release Detection: Galvanized Steel Piping Material: Piping Type: Pressure (Remote)

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08480 Longitude: -83.67426

Facility Type: CLOSED
Facility ID: 00017255
Facility Region: 2

Owner Name: EXXONMOBIL OIL CORPORATION

Owner Address: C/O GILBARCO VEEDER-ROOT 7300 W FRIENDLY AVE / PO BOX 22087

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

#### **BUCKEYE TERMINALS LLC (Continued)**

1000253481

Owner City: GREENSBORO

Owner State: NC Owner Zip: 27420-2087 Owner Contact: Not reported 8002538054 Owner Phone: Tom Bess Jr Contact: Contact Phone: (810) 789-9180 Date of Collection: 01/11/2001 Accuracy: 100

Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: UTK-064495-Pfant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 4 Capacity: 300

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 04/29/1983 Remove Date: 09/07/1989 UTK-047197-15 Tank Number: Tank Details Compartments: Not reported Not reported Tank Release Detection: Not reported Pipe Release Detection: Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08480 Longitude: -83.67426

Facility Type: CLOSED Facility ID: 00017255

Facility Region: 2

Owner Name: EXXONMOBIL OIL CORPORATION

Owner Address: C/O GILBARCO VEEDER-ROOT 7300 W FRIENDLY AVE / PO BOX 22087

Owner City: GREENSBORO

Owner State: NC

27420-2087 Owner Zip: Owner Contact: Not reported Owner Phone: 8002538054 Contact: Tom Bess Jr Contact Phone: (810) 789-9180 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83

Accuracy Value Unit: NAD83

Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

 Tank ID:
 3

 Capacity:
 8000

Tank Status: Closed in Ground

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **BUCKEYE TERMINALS LLC (Continued)**

1000253481

Substance: Other(GASOLINE ADDITI)

Install Date: 04/28/1977 Remove Date: 09/30/1989 Tank Number: UTK-064487-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Not reported Pipe Release Detection: Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported 43.08480 Latitude: -83.67426 Longitude:

Facility Type: **CLOSED** Facility ID: 00017255

Facility Region:

Owner Name: **EXXONMOBIL OIL CORPORATION** 

Owner Address: C/O GILBARCO VEEDER-ROOT 7300 W FRIENDLY AVE / PO BOX 22087

**GREENSBORO** Owner City:

Owner State: NC

27420-2087 Owner Zip: Owner Contact: Not reported Owner Phone: 8002538054 Contact: Tom Bess Jr Contact Phone: (810) 789-9180 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83 **FEET** Accuracy Value Unit:

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Lansing District Office District:

Tank ID: 2 3000 Capacity:

Tank Status: Removed from Ground Other(FUEL OIL) Substance: 04/28/1984 Install Date: Remove Date: 10/01/1985 UTK-064484-15 Tank Number: Tank Details Compartments: Not reported Not reported Tank Release Detection: Not reported Pipe Release Detection: Galvanized Steel Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08480 Longitude: -83.67426

**CLOSED** Facility Type: Facility ID: 00017255 Facility Region:

Owner Name: **EXXONMOBIL OIL CORPORATION** 

Owner Address: C/O GILBARCO VEEDER-ROOT 7300 W FRIENDLY AVE / PO BOX 22087

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **BUCKEYE TERMINALS LLC (Continued)**

1000253481

**GREENSBORO** Owner City:

NC Owner State: 27420-2087 Owner Zip: Owner Contact: Not reported 8002538054 Owner Phone: Tom Bess Jr Contact: Contact Phone: (810) 789-9180 01/11/2001 Date of Collection:

Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: Capacity: 20000

Removed from Ground Tank Status:

Substance: Gasoline Install Date: 04/28/1950 Remove Date: 09/07/1989 UTK-003729-15 Tank Number: Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08480 Longitude: -83.67426

K41 **LEEMON OIL CO INC** wsw 5150 N DORT HWY

1/8-1/4 FLINT, MI 48505 0.168 mi.

Site 1 of 7 in cluster K 885 ft.

LUST: Actual: 751 ft. Facility ID: 00012650

Source: STATE OF MICHIGAN Focus Map: Owner Name: Leemon Oil Co Inc

Owner Address: 28340 Wick Rd Owner City,St,Zip: Romulus, MI 48174 Owner Contact: Not reported Owner Phone: 734-946-2199

Country: USA District: Lansing

Site Name: Leemon Oil Co Inc

Latitude: 43.08707 Longitude: -83.67431 Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: FEET NAD83 Horizontal Data: Point Line Area: **POINT** 

MI LUST

MI UST

MI WDS

MI INVENTORY

U000253494

N/A

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **LEEMON OIL CO INC (Continued)**

U000253494

Desc Category: Plant Entrance (Freight)

Leak Number: C-1182-01 Release Date: 07/30/2001 Substance Released: Unknown Release Status: Open Release Closed Date: Not reported

UST:

Facility Type: **CLOSED** Facility ID: 00012650

Facility Region: 2

LEEMON OIL CO INC Owner Name: Owner Address: 28340 WICK RD **ROMULUS** Owner City: Owner State: MI 48174 Owner Zip: Owner Contact: Not reported Owner Phone: 7349462199 Contact: R. ALBERTIE (248) 644-9000 Contact Phone:

Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 6 Capacity: 20000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 01/01/1985 06/11/2001 Remove Date: UTK-016316-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Not reported Pipe Release Detection: Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel, Cathodically Protected Steel

R. ALBERTIE

Impressed Device: Not reported Latitude: 43.08707 -83.67431 Longitude:

Facility Type: **CLOSED** Facility ID: 00012650

Facility Region: 2

Contact:

Owner Name: LEEMON OIL CO INC Owner Address: 28340 WICK RD Owner City: **ROMULUS** Owner State: MI Owner Zip: 48174 Owner Contact: Not reported Owner Phone: 7349462199

Direction Distance

Elevation Site Database(s) EPA ID Number

## LEEMON OIL CO INC (Continued)

U000253494

**EDR ID Number** 

Contact Phone: (248) 644-9000
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

 Tank ID:
 5

 Capacity:
 20000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 01/01/1985 06/11/2001 Remove Date: UTK-068124-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel, Cathodically Protected Steel

Impressed Device: Not reported Latitude: 43.08707 Longitude: -83.67431

Facility Type: CLOSED Facility ID: 00012650

Facility Region: 2

Owner Name: LEEMON OIL CO INC
Owner Address: 28340 WICK RD
Owner City: ROMULUS
Owner State: MI
Owner Zip: 48174

Owner Contact: Not reported Owner Phone: 7349462199 Contact: R. ALBERTIE (248) 644-9000 Contact Phone: Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

4

District: Lansing District Office

Tank ID:

Capacity: 8000

Tank Status: Removed from Ground

Substance: Diesel
Install Date: 03/04/1979
Remove Date: 06/11/2001
Tank Number: UTK-068121-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported

Distance Elevation Sit

n Site Database(s) EPA ID Number

# LEEMON OIL CO INC (Continued)

U000253494

**EDR ID Number** 

Pipe Release Detection:
Piping Material:
Piping Type:
Not reported
Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08707 Longitude: -83.67431

Facility Type: CLOSED Facility ID: 00012650

Facility Region: 2

Owner Name:

Owner Address:

Owner City:

Owner State:

Owner Zip:

LEEMON OIL CO INC
28340 WICK RD
ROMULUS

MI
48174

 Owner Zip:
 48174

 Owner Contact:
 Not reported

 Owner Phone:
 7349462199

 Contact:
 R. ALBERTIE

 Contact Phone:
 (248) 644-9000

 Date of Collection:
 01/11/2001

 Accuracy:
 100

 Horizontal Datum:
 NAD83

Accuracy Value Unit: NAD83

Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

 Tank ID:
 3

 Capacity:
 8000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 03/04/1979 06/11/2001 Remove Date: UTK-033546-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Not reported Pipe Release Detection: Galvanized Steel Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08707 Longitude: -83.67431

Facility Type: CLOSED Facility ID: 00012650

Facility Region: 2

Owner Name: LEEMON OIL CO INC
Owner Address: 28340 WICK RD
Owner City: ROMULUS

Owner City: ROMULUS
Owner State: MI
Owner Zip: 48174
Owner Contact: Not reported
Owner Phone: 7349462199
Contact: R. ALBERTIE

Direction Distance

Elevation Site Database(s) EPA ID Number

## LEEMON OIL CO INC (Continued)

U000253494

**EDR ID Number** 

Contact Phone: (248) 644-9000
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 8000

Tank Status: Removed from Ground

Substance: Gasoline 03/04/1979 Install Date: Remove Date: 06/11/2001 UTK-068116-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported 43.08707 Longitude: -83.67431

Facility Type: CLOSED Facility ID: 00012650

Facility Region:

Owner Name: LEEMON OIL CO INC
Owner Address: 28340 WICK RD
Owner City: ROMULUS
Owner State: MI

 Owner State:
 MI

 Owner Zip:
 48174

 Owner Contact:
 Not reported

 Owner Phone:
 7349462199

 Contact:
 R. ALBERTIE

 Contact Phone:
 (248) 644-9000

 Date of Collection:
 01/11/2001

 Accuracy:
 100

Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID:

Capacity: 8000

Tank Status: Removed from Ground

Substance: Gasoline
Install Date: 03/04/1979
Remove Date: 06/11/2001
Tank Number: UTK-009845-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

**LEEMON OIL CO INC (Continued)** 

U000253494

**EDR ID Number** 

Pipe Release Detection: Not reported Galvanized Steel Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported 43.08707 Latitude: -83.67431 Longitude:

INVENTORY:

Bea Number: Not reported Township: Not reported District: Lansing Data Source: Part 213 Latitude: 43.08708 Longitude: -83.67431

WDS:

Site Id: MIK774358816 WMD Id: 463677

Site Specific Name: LEEMON OIL CO 2205 HOLLAND ST Mailing Address:

Mailing City/State/Zip: 48009 Mailing County: OAKLAND

L42 MOBIL OIL CORP MI INVENTORY S114564761 **G5340 N DORT HWY** N/A

West 1/8-1/4 FLINT, MI 48505

0.170 mi.

896 ft. Site 1 of 3 in cluster L

INVENTORY: Actual:

760 ft. Not reported Bea Number: Not reported Township: Focus Map: District: Lansing 10 Part 213 Data Source: Latitude: 43.0848 Longitude: -83.67426

L43 **FLINT TERMINAL** MI AST A100249496 0 N DORT West N/A

FLINT, MI 48505 1/8-1/4

0.170 mi.

897 ft. Site 2 of 3 in cluster L

Actual: AST:

760 ft. Facility ID: 91025017 Facility Phone: (810) 240-4032 Focus Map: Owner Name: FLINT TERMINAL 10

5 TEK PARK 9999 HAMILTON BLVD Owner Address: Owner City,St,Zip: BREINIGSVILLE, PA 48505-1833

Owner County: Not reported Owner Contact: Nick Frosini Owner Telephone: 3135548816

District: 2

**Bob Johnson** Contact:

Direction Distance Elevation

ion Site Database(s) EPA ID Number

#### **FLINT TERMINAL (Continued)**

A100249496

**EDR ID Number** 

List Status: Not reported Date of Collection: 01/11/2001 Accuracy: 100 FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Description Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Horizontal Datum: NAD83 Latitude: 43.0848020 Longitude: -83.674262

Tank Id: ATK-096303-15
Tank Status: Currently In Use
Capacity (in gallons): 2571339
Installation Date: 01/03/1996
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-096283-15
Tank Status: Currently In Use

Capacity (in gallons): 3000
Installation Date: 06/23/1993
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-096282-15
Tank Status: Currently In Use
Capacity (in gallons): 336000
Installation Date: 06/23/1993
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-064880-15
Tank Status: Currently In Use
Capacity (in gallons): 1909798
Installation Date: 01/01/1958
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-064871-15
Tank Status: Currently In Use
Capacity (in gallons): 842732
Installation Date: 01/01/1959
Substance Stored: Mixture
Removed/Closed Date: Not reported

Tank Id: ATK-037651-15
Tank Status: Currently In Use

Capacity (in gallons): 8000
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

#### **FLINT TERMINAL (Continued)**

A100249496

**EDR ID Number** 

Tank Id: ATK-064890-15
Tank Status: Currently In Use
Capacity (in gallons): 25000
Installation Date: Not reported
Substance Stored: Other

Substance Stored: Other
Removed/Closed Date: Not reported
Not reported

Tank Id: ATK-064876-15
Tank Status: Currently In Use
Capacity (in gallons): 1999379
Installation Date: 01/01/1959
Substance Stored: Diesel
Removed/Closed Date: Not reported

Tank Id: ATK-064867-15
Tank Status: Currently In Use
Capacity (in gallons): 2769784
Installation Date: 01/01/1959
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-002169-15
Tank Status: Currently In Use

Capacity (in gallons): 6000
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-026943-15
Tank Status: Pipe Disconnected

Capacity (in gallons): 8000
Installation Date: 06/23/1993
Substance Stored: Other
Removed/Closed Date: 09/01/2002

Tank Id: ATK-119198-15
Tank Status: Currently In Use

Capacity (in gallons): 2000
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-064896-15
Tank Status: Currently In Use
Capacity (in gallons): 1024453
Installation Date: 06/23/1993
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-096296-15

Direction Distance

Elevation Site Database(s) EPA ID Number

FLINT TERMINAL (Continued) A100249496

Tank Status: Currently In Use
Capacity (in gallons): 8000
Installation Date: 06/23/1993
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-039490-15
Tank Status: Currently In Use

Capacity (in gallons): 8000
Installation Date: 06/23/1993
Substance Stored: Other
Removed/Closed Date: Not reported

Tank Id: ATK-064885-15
Tank Status: Currently In Use

Capacity (in gallons): 30000
Installation Date: 01/01/1959
Substance Stored: Other
Removed/Closed Date: Not reported

 L44
 SUPERIOR MATERIALS LLC
 RCRA-SQG
 1000423600

 West
 G5300 N DORT HWY
 MI AST
 MID006531958

1/8-1/4 FLINT, MI 48505

0.170 mi.

898 ft. Site 3 of 3 in cluster L

Actual: RCRA-SQG:

**760 ft.** Date form received by agency: 05/18/2009

Focus Map: Facility name: SUPERIOR MATERIALS LLC 10 Facility address: G5300 N DORT HWY

FLINT, MI 48505
EPA ID: MID006531958

Mailing address: 33469 W 14 MILE RD FARMINGTON, MI 48331
Contact: MATT WOLOSZYK

Contact: MATT WOLOSZYK
Contact address: G5300 N DORT HWY
FLINT, MI 48505

Contact country: US

Contact telephone: 248-852-2004 Contact email: Not reported

EPA Region: 05

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: SUPERIOR MATERIALS LLC

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported

**EDR ID Number** 

Direction Distance Elevation

ion Site Database(s) EPA ID Number

## SUPERIOR MATERIALS LLC (Continued)

1000423600

**EDR ID Number** 

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 05/01/2008
Owner/Op end date: Not reported

Owner/operator name: SUPERIOR MATERIALS LLC

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 05/01/2008 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

# Historical Generators:

Date form received by agency: 05/18/2009

Site name: SUPERIOR MATERIALS LLC Classification: Not a generator, verified

Date form received by agency: 05/04/2009

Site name: SUPERIOR MATERIALS LLC Classification: Not a generator, verified

Date form received by agency: 02/19/2004

Site name: SUPERIOR MATERIALS LLC Classification: Small Quantity Generator

Date form received by agency: 09/15/2003

Site name: SUPERIOR MATERIALS LLC Classification: Small Quantity Generator

Date form received by agency: 09/29/1986

Site name: SUPERIOR MATERIALS LLC

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## SUPERIOR MATERIALS LLC (Continued)

1000423600

Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

**IGNITABLE WASTE** Waste name:

Violation Status: No violations found

AST:

Facility ID: 91025138 Facility Phone: (810) 577-5868

Owner Name: SUPERIOR MATERIALS PLANT 20

Owner Address: PO BOX 2900

Owner City, St, Zip: FARMINGTON HILLS, MI 48505-1833

Owner County: Not reported Owner Contact: Not reported 2485219949 Owner Telephone:

District:

Dean Schluckbier Contact: List Status: Not reported Date of Collection: 01/11/2001 100 FEET Accuracy:

Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

**Description Category:** Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Horizontal Datum: NAD83 Latitude: 43.0852790 -83.674273 Longitude:

Tank Id: ATK-103119-15 Tank Status: Currently In Use

Capacity (in gallons): 12000 02/13/1997 Installation Date: Substance Stored: Other Removed/Closed Date: Not reported

K45 PARTS DEPOT OF FLINT LLC

wsw **5130 N DORT HWY** 1/8-1/4 FLINT, MI 48505

0.172 mi.

908 ft. Site 2 of 7 in cluster K Actual: RCRA NonGen / NLR:

750 ft. Date form received by agency: 02/13/2009

PARTS DEPOT OF FLINT LLC Facility name: Focus Map:

Facility address: 5130 N DORT HWY

> FLINT, MI 48505 EPA ID: MIK363839754 Contact: CHUCK GANNON Contact address: 5130 N DORT HWY

FLINT, MI 48505

Contact country: US

Contact telephone: 810-787-4992 Contact email: Not reported

EPA Region: 05

Classification: Non-Generator 1012180366

MIK363839754

RCRA NonGen / NLR

Distance Elevation Site

Site Database(s) EPA ID Number

#### PARTS DEPOT OF FLINT LLC (Continued)

1012180366

**EDR ID Number** 

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

Owner/Operator Summary:

Owner/Op end date:

Owner/operator name: FRITZ ACQUISITION COMPANY LLC

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Private Legal status: Owner/Operator Type: Operator Owner/Op start date: 11/15/2006

Owner/operator name: FRITZ ACQUISITION COMPANY LLC

Owner/operator address: Not reported

Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner 11/15/2006 Owner/Op start date: Owner/Op end date: Not reported

#### Handler Activities Summary:

U.S. importer of hazardous waste: Nο 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 No Used oil processor: 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

#### Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

Direction Distance

Elevation Site **EPA ID Number** Database(s)

E46 MI INVENTORY S122898441

N/A

**EDR ID Number** 

**5273 NORTH DORT HIGHWAY** West GENESEE (County), MI 48507 1/8-1/4

0.173 mi.

911 ft. Site 4 of 7 in cluster E

INVENTORY: Actual:

751 ft. 201802490LA Bea Number:

Longitude:

Focus Map:

Township: Flint District: Lansing Data Source: BEA Latitude: Not reported

**GLR ADVANCED RECYCLING** E47 **RCRA-CESQG** 1023677836 **5273 NORTH DORT HWY** West MIK684379218

1/8-1/4 FLINT, MI 48505

0.173 mi.

911 ft. Site 5 of 7 in cluster E

Actual: RCRA-CESQG:

751 ft. Date form received by agency: 06/07/2017

GLR ADVANCED RECYCLING Facility name: Focus Map:

Facility address: 5273 NORTH DORT HWY 13

> FLINT, MI 48505 EPA ID: MIK684379218 Contact: JOHN VAN ZANDT

Not reported

Contact address: Not reported

Not reported Contact country: Not reported 810-221-0554 Contact telephone: Contact email: Not reported

EPA Region: 05 Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Handler: generates 100 kg or less of hazardous waste per calendar Description:

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: GLR ADVANCED RECYCLING

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported

Direction Distance Elevation

nce EDR ID Number ation Site Database(s) EPA ID Number

## **GLR ADVANCED RECYCLING (Continued)**

1023677836

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2005
Owner/Op end date: Not reported

Owner/operator name: GLR ADVANCED RECYCLING

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner 01/01/2005 Owner/Op start date: 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

# Hazardous Waste Summary:

Waste code: D001

. Waste name: IGNITABLE WASTE

Facility Has Received Notices of Violations:

Regulation violated:

Not reported

Area of violation: State Statute or Regulation

Date violation determined: 05/23/2017
Date achieved compliance: Not reported Violation lead agency: State

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

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# **GLR ADVANCED RECYCLING (Continued)**

1023677836

**Evaluation Action Summary:** 

Evaluation date: 05/23/2017

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: State Statute or Regulation

Date achieved compliance: Not reported Evaluation lead agency: State

E48 **ROBERT S YOUNG/YOUNG & ORME** 

MI LUST U002301220 5305 N DORT HWY MI UST N/A FLINT, MI 48505 MI INVENTORY

1/8-1/4 0.173 mi.

West

912 ft. Site 6 of 7 in cluster E

LUST: Actual:

750 ft. Facility ID: 00001946

STATE OF MICHIGAN Source: Focus Map:

Owner Name: Robert S Young/Young & Orme

Owner Address: 5305 North Dort Hwy Flint, MI 48505-1832 Owner City, St, Zip: Owner Contact: Not reported (810) <sup>7</sup>89-7155 Owner Phone: Country: **USA** 

District: Lansing

Robert S Young/Young & Orme Site Name:

Latitude: 43.08522 Longitude: -83.67464 Date of Collection: 01/12/1998

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 10 Accuracy Value Unit: **METERS** Horizontal Data: NAD83 Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Leak Number: C-0278-18 Release Date: 12/17/2018 Substance Released: Gasoline Release Status: Open Release Closed Date: Not reported

Leak Number: C-1463-94 Release Date: 11/29/1994 Substance Released: Used Oil,Other Release Status: Open

Release Closed Date: Not reported

C-2041-90 Leak Number: Release Date: 10/12/1990 Substance Released: Not reported Release Status: Open Release Closed Date: Not reported

UST:

**ACTIVE** Facility Type: Facility ID: 00001946

Facility Region:

ROBERT S YOUNG/YOUNG & ORME Owner Name:

Owner Address: 5305 N DORT HWY

Owner City: **FLINT** 

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

# ROBERT S YOUNG/YOUNG & ORME (Continued)

U002301220

**EDR ID Number** 

Owner State: MI

48505-1832 Owner Zip: Owner Contact: Not reported Owner Phone: 8107897155 Contact: Donald D. Long Contact Phone: (810) 789-7155 Date of Collection: 01/12/1998

Accuracy: 10 NAD83 Horizontal Datum: Accuracy Value Unit: **METERS** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

Tank ID: 10000 Capacity:

Tank Status: Currently In Use Substance: Diesel, Gasoline 02/13/1992 Install Date: Remove Date: Not reported UTK-088573-15 Tank Number:

Tank Details Compartments:

Tank Release Detection: Automatic Tank Gauging, Interstital Monitoring Double Walled

Tank/Piping

Automatic Line Leak Detectors, Interstitial Monitoring Double Walled Pipe Release Detection:

Piping, Other

Piping Material: Double Walled, Fiberglass Reinforced Plastic

Piping Type: Pressure (Remote)

Tank Construction: Composite (Steel With Fiberglass), Double Walled, Other

Impressed Device: Not reported Latitude: 43.08522 Longitude: -83.67464

**ACTIVE** Facility Type: Facility ID: 00001946

Facility Region:

ROBERT S YOUNG/YOUNG & ORME Owner Name:

5305 N DORT HWY Owner Address:

Owner City: **FLINT** Owner State: MI

48505-1832 Owner Zip: Owner Contact: Not reported Owner Phone: 8107897155 Contact: Donald D. Long Contact Phone: (810) 789-7155 Date of Collection: 01/12/1998 Accuracy: 10 Horizontal Datum: NAD83

**METERS** Accuracy Value Unit: STATE OF MICHIGAN Source:

Point Line Area:

Plant Entrance (Freight) Desc Category:

GPS Code Meas. Standard Positioning Service SA Off Method of Collection:

District: Lansing District Office

Tank ID: Capacity: 2000

Direction Distance

Elevation Site Database(s) EPA ID Number

# ROBERT S YOUNG/YOUNG & ORME (Continued)

U002301220

**EDR ID Number** 

Tank Status: Removed from Ground Other(FUEL OIL) Substance: Install Date: 04/09/1986 Remove Date: 11/19/1994 UTK-088572-15 Tank Number: Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel, Cathodically Protected Steel, Lined Interior

Impressed Device: Not reported Latitude: 43.08522 Longitude: -83.67464

Facility Type: ACTIVE Facility ID: 00001946

Facility Region: 2

Owner Name: ROBERT S YOUNG/YOUNG & ORME

Owner Address: 5305 N DORT HWY

Owner City: FLINT
Owner State: MI
Owner Zip: 48505-1832
Owner Contact: Not reported

Owner Contact: Not reported
Owner Phone: 8107897155
Contact: Donald D. Long
Contact Phone: (810) 789-7155
Date of Collection: 01/12/1998

Accuracy: 10
Horizontal Datum: NAD83
Accuracy Value Unit: METERS

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

 Tank ID:
 5

 Capacity:
 1000

Tank Status: Removed from Ground

Used Oil Substance: Install Date: 04/10/1979 Remove Date: 11/19/1994 Tank Number: UTK-088569-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08522 Longitude: -83.67464

Facility Type: ACTIVE
Facility ID: 00001946
Facility Region: 2

Owner Name: ROBERT S YOUNG/YOUNG & ORME

Direction Distance

Elevation Site Database(s) EPA ID Number

# ROBERT S YOUNG/YOUNG & ORME (Continued)

U002301220

**EDR ID Number** 

Owner Address: 5305 N DORT HWY

Owner City: **FLINT** Owner State: MI Owner Zip: 48505-1832 Owner Contact: Not reported 8107897155 Owner Phone: Contact: Donald D. Long Contact Phone: (810) 789-7155 Date of Collection: 01/12/1998 Accuracy: 10

Accuracy: 10
Horizontal Datum: NAD83
Accuracy Value Unit: METERS

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

Tank ID: 4 Capacity: 4000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 04/09/1966 06/04/1991 Remove Date: Tank Number: UTK-088563-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08522 Longitude: -83.67464

Facility Type: ACTIVE Facility ID: 00001946

Facility Region: 2

Owner Name: ROBERT S YOUNG/YOUNG & ORME

Owner Address: 5305 N DORT HWY

 Owner City:
 FLINT

 Owner State:
 MI

 Owner Zip:
 48505-1832

Owner Contact:

Owner Phone:

8107897155

Contact:

Donald D. Long

Contact Phone:

(810) 789-7155

Date of Collection:

Accuracy:

Horizontal Datum:

Not reported

8107897155

01/12/1998

10

NAD83

Accuracy Value Unit: NAD83

METERS

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

 Tank ID:
 3

 Capacity:
 4000

Direction Distance

Elevation Site Database(s) EPA ID Number

## ROBERT S YOUNG/YOUNG & ORME (Continued)

U002301220

**EDR ID Number** 

Tank Status: Removed from Ground

Substance: Diesel Install Date: 04/09/1966 Remove Date: 06/30/1987 UTK-088561-15 Tank Number: Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08522 Longitude: -83.67464

Facility Type: ACTIVE Facility ID: 00001946

Facility Region: 2

Owner Name: ROBERT S YOUNG/YOUNG & ORME

Owner Address: 5305 N DORT HWY

Owner City: FLINT
Owner State: MI
Owner Zip: 48505-1832

Owner Contact:

Owner Phone:

Contact:

Contact:

Contact Phone:

Date of Collection:

Accuracy:

Not reported
8107897155

Donald D. Long
(810) 789-7155

01/12/1998

Horizontal Datum: NAD83
Accuracy Value Unit: METERS

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

 Tank ID:
 2

 Capacity:
 8000

Tank Status: Removed from Ground

Substance: Diesel Install Date: 04/09/1966 Remove Date: 06/04/1991 Tank Number: UTK-011388-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08522 Longitude: -83.67464

Facility Type: ACTIVE
Facility ID: 00001946
Facility Region: 2

Owner Name: ROBERT S YOUNG/YOUNG & ORME

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# ROBERT S YOUNG/YOUNG & ORME (Continued)

U002301220

5305 N DORT HWY Owner Address:

Owner City: **FLINT** Owner State: MI Owner Zip: 48505-1832 Owner Contact: Not reported Owner Phone: 8107897155 Contact: Donald D. Long Contact Phone: (810) 789-7155 Date of Collection: 01/12/1998 Accuracy: 10

Horizontal Datum: NAD83 Accuracy Value Unit: **METERS** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

Tank ID: Capacity: 8000

Removed from Ground Tank Status:

Substance: Diesel Install Date: 04/09/1966 Remove Date: 06/04/1991 Tank Number: UTK-018909-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.08522 Longitude: -83.67464

INVENTORY:

Bea Number: Not reported Not reported Township: District: Lansing Data Source: Part 213 Latitude: 43.08523 -83.67465 Longitude:

YOUNG'S ENVIRONMENTAL E49 MI AST A100446708 N/A

West 5305 N DORT HWY 1/8-1/4 FLINT, MI 48505

0.173 mi.

Site 7 of 7 in cluster E 912 ft.

Actual: AST: 750 ft.

Facility ID: Not reported Facility Phone: Not reported Focus Map: Owner Name: Not reported

Owner Address: Not reported Owner City,St,Zip: Not reported Owner County: Not reported Owner Contact: Not reported Owner Telephone: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

YOUNG'S ENVIRONMENTAL (Continued)

A100446708

District: Not reported Not reported Contact: Abovegroun List Status: Date of Collection: Not reported Accuracy: Not reported Not reported Source: Not reported Point Line Area: Not reported **Description Category:** Method of Collection: Not reported Horizontal Datum: Not reported Latitude: Not reported Longitude: Not reported

Tank Id: ATK-000248-17 Tank Status: Registered Capacity (in gallons): Not reported Installation Date: Not reported Substance Stored: Not reported Removed/Closed Date: Not reported

K50 5130 AND 5122 NORTH DORT HIGHWAY MI BEA \$108669810 **WSW** 5130 AND 5122 NORTH DORT HIGHWAY N/A

1/8-1/4 FLINT, MI

0.174 mi.

918 ft. Site 3 of 7 in cluster K

Actual: BEA:

750 ft. Secondary Address: Not reported BEA Number: 1197 Focus Map: District: Lansing 13 Date Received: 06/28/2007

Submitter Name: Spooner Metals, LLC

Petition Determination: No Request

Petition Disclosure:

Category: Same Hazardous Substance(s)

Determination 20107A: No Request Reviewer: innesj

Division Assigned: **Environmental Response Division** 

**ENVIRONMENTAL RUBBER RECYCLING INC I51** MI SWRCY

West **6515 DORT HIGHWAY** FLINT, MI 48505 1/8-1/4

0.178 mi.

Site 2 of 3 in cluster I 940 ft.

SWRCY: Actual: 751 ft. SR No:

810-789-1222 Contact Phone1: Focus Map: EMail: Not reported

> http://environmentalrubberrecycling.com Website:

139

Location Description: 559 miles away Materials Accepted: Not reported Collector Services: Collection: Drop off, Pick up Service Area: Genesee County Not reported Notes:

TC5779007.5s Page 211

S116602740

N/A

MI NPDES

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **ENVIRONMENTAL RUBBER RECYCLING INC (Continued)**

S116602740

Hours of Operation: Not reported Hazerdous Waste: Not reported E Scrap: Not reported Other: Not reported

SWRCY:

SR No 2: 139

Paper - OCC/Corrugated Containers Material:

Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

GRATIOT, ST. CLAIR Service Area:

SR No 2: Paper - ONP Material: Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

GRATIOT, ST. CLAIR Service Area:

SR No 2: 139

Material: Paper - Paperboard

Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

Service Area: GRATIOT, ST. CLAIR

SR No 2: 139

Material: Paper - Telephone Books

Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

GRATIOT, ST. CLAIR Service Area:

SR No 2: 139

Plastics - HDPE (2) Material:

Service: None Drop Off/Pick Up: Both Minimum Quantity: None Unit: None

GRATIOT, ST. CLAIR Service Area:

MI NPDES:

Permit Number: MIS510841

Permitee PO Box:

Permitee Email: dbingus@fortistar.com

05/12/2015 Issue Date: 05/12/2015 Effective Date: **Expiration Date:** 04/01/2020

Permittee Name: Environmental Rubber Recycling Incorporated

Permittee Address: 6515 North Dort Highway

Permittee Addr2: Not reported

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

# **ENVIRONMENTAL RUBBER RECYCLING INC (Continued)**

S116602740

1023677803

MIK393799650

**RCRA-CESQG** 

Permittee City, St, Zip: Flint, MI 48505

NPDES Certificate of Coverage under General Permit (COC) Permit Type:

Facility Name 2: Not reported Facility Name 3: Not reported Facility Name 4: Not reported

**Environmental Rubber Recy** Designed Name:

Latitude: 43.071226 Lat Direction: Ν Lat Type Code: LAT Longitude: -83.674163 Lon Direction: W Lon Type Code: LON

Hydrologic Unit Code: 4080204 Permit Status: In Effect

COC Permit Category: SW-Industrial CY5

DEQ District Email: Lansing DEQ Permit Compliance Manager: Brian Zuber

DEQ Permit Compliance Manager Email: zuberb@michigan.gov

K52 **RJ INDUSTRIAL** West 5167 N DORT HWY 1/8-1/4 FLINT, MI 48505

0.178 mi.

942 ft. Site 4 of 7 in cluster K

RCRA-CESQG: Actual:

751 ft. Date form received by agency: 06/07/2017 Facility name: **RJ INDUSTRIAL** Focus Map: Facility address: 5167 N DORT HWY FLINT, MI 48505

> EPA ID: MIK393799650 Mailing address: **5061 ENERGY DRIVE**

FLINT, MI 48505 DOUG ADAMS Contact: Contact address: Not reported Not reported Contact country: Not reported

810-701-1555 Contact telephone:

DADAMS@RJIND.COM Contact email:

EPA Region: 05 Land type: Private

Classification: Conditionally Exempt Small Quantity Generator 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

Direction Distance Elevation

Site Database(s) **EPA ID Number** 

## **RJ INDUSTRIAL (Continued)**

1023677803

**EDR ID Number** 

Owner/Operator Summary:

Owner/Op end date:

Owner/operator fax:

**RJ INDUSTRIES** Owner/operator name: Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner 01/01/2005 Owner/Op start date:

Owner/operator name: **RJ INDUSTRIES** Owner/operator address: Not reported

Not reported Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator extension: Not reported

Not reported

Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/01/2005 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

# Hazardous Waste Summary:

D001 Waste code:

Waste name: **IGNITABLE WASTE** 

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 05/23/2017 Not reported Date achieved compliance: Violation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

**RJ INDUSTRIAL (Continued)** 

1023677803

**EDR ID Number** 

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

Regulation violated: Not reported

Area of violation: State Statute or Regulation

Date violation determined: 05/23/2017 Date achieved compliance: Not reported Violation lead agency: State Enforcement action: Not reported Enforcement action date: Not reported Not reported Enf. disposition status: Enf. disp. status date: Not reported Enforcement lead agency: Not reported Proposed penalty amount: Not reported Not reported Final penalty amount: Paid penalty amount: Not reported

**Evaluation Action Summary:** 

Evaluation date: 05/23/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: State Statute or Regulation

Date achieved compliance: Not reported

Evaluation lead agency: State

Evaluation date: 05/23/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: Not reported Evaluation lead agency: State

K53 RJ INDUSTRIAL West 5167 N DORT HWY 1/8-1/4 FLINT, MI 48505

0.178 mi.

942 ft. Site 5 of 7 in cluster K

Actual: BEA:

751 ft. Secondary Address: Not reported Focus Map: BEA Number: 921 13 District: Lansing

Date Received: 04/13/2005
Submitter Name: R. J. Torching, Inc
Petition Determination: No Request

Petition Disclosure: 0

Category: Different Hazardous Substance(s)

Determination 20107A: No Request Reviewer: innesj

Division Assigned: Environmental Response Division

WDS:

Site Id: MIK393799650 WMD Id: 496850

MI BEA

MI WDS

S106896450

N/A

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

**RJ INDUSTRIAL (Continued)** S106896450

Site Specific Name: **RJ INDUSTRIAL** 5061 ENERGY DRIVE Mailing Address:

Mailing City/State/Zip: 48505 Mailing County: GENESEE

K54 **PHOTIOU** SEMS 1014915002 West **5145 NORTH DORT HIGHWAY** 

MIN000510601

**EDR ID Number** 

1/8-1/4 FLINT, MI 48505

0.182 mi.

963 ft. Site 6 of 7 in cluster K

SEMS: Actual:

751 ft. Site ID: 0510601 EPA ID: MIN000510601 Focus Map:

Cong District: 05 FIPS Code: 26049 Latitude: Not reported Longitude: Not reported

FF:

NPL: Not on the NPL

Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:

Region: 05 Site ID: 0510601 MIN000510601 EPA ID: Site Name: **PHOTIOU** NPL: Ν FF: Ν OU: 00 Action Code: ΡJ

Action Name: RP EM REM

SEQ:

Start Date: 2011-05-01 05:00:00

Finish Date: 5/17/2011

Qual:

Current Action Lead: **EPA Ovrsght** 

K55 5145 NORTH DORT HIGHWAY, 1420 EAST PIERSON ROAD, 5 **US BROWNFIELDS** 1024326156 N/A

5145 N DORT HWY, 1420 EAST PIERSON ROAD, 5020 THETFORD ROAD West FLINT, MI 48505 1/8-1/4

0.182 mi.

963 ft. Site 7 of 7 in cluster K Actual: **US BROWNFIELDS:** 

751 ft. 5145 NORTH DORT HIGHWAY, 1420 EAST PIERSON ROAD, 5 Name:

Address: 5145 N DORT HWY, 1420 EAST PIERSON ROAD, 5020 THETFORD ROAD Focus Map:

City,State,Zip: FLINT, MI 48505 13

Recipient Name: Genesee County Land Bank Authority

Grant Type: Assessment

Property Number: 47-32-101-025; 47-32-101-023; 47-32-101-021; 47-32-101-004; 47-32-101-005

Parcel size: 1.3

Latitude: 43.0611258

Longitude: -83.67427729999997

HCM Label: Not reported Map Scale: Not reported

Direction Distance Elevation

evation Site Database(s) EPA ID Number

## 5145 NORTH DORT HIGHWAY, 1420 EAST PIERSON ROAD, 5 (Continued)

1024326156

**EDR ID Number** 

Point of Reference: Not reported Highlights: Not reported Datum: Not reported Acres Property ID: 228322 IC Data Access: Not reported Start Date: Not reported Not reported Redev Completition Date: Completed Date: Not reported Acres Cleaned Up: Not reported Cleanup Funding: Not reported Cleanup Funding Source: Not reported Assessment Funding: 2350

Assessment Funding Source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment Funding:
Redev. Funding Source:
Redev. Funding Entity Name:
Redevelopment Start Date:
Assessment Funding Entity:
Cleanup Funding Entity:
Not reported
Performance
Redevelopment Start Date:
Not reported
Not reported
Not reported

Grant Type: Petroleum
Accomplishment Type: Phase I Environmental Assessment

Accomplishment Count: 1

Cooperative Agreement Number: 00E01382

 Start Date:
 11/01/2016 00:00:00

 Ownership Entity:
 Not reported

 Completion Date:
 11/28/2016 00:00:00

Current Owner: Not reported Did Owner Change: Not reported

Cleanup Required:

Video Available: Not reported Photo Available: Not reported

Institutional Controls Required: U

IC Category Proprietary Controls: Not reported IC Cat. Info. Devices: Not reported IC Cat. Gov. Controls: Not reported IC Cat. Enforcement Permit Tools: Not reported Not reported IC in place date: IC in place: Not reported State/tribal program date: Not reported State/tribal program ID: Not reported State/tribal NFA date: Not reported Air contaminated: Not reported Air cleaned: Not reported Not reported Asbestos found: Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Not reported Groundwater affected: Groundwater cleaned: Not reported Lead contaminant found: Not reported Lead cleaned up: Not reported No media affected: Not reported Unknown media affected: Not reported Other cleaned up: Not reported Other metals found: Not reported

Distance Elevation Site

Database(s)

Not reported

Not reported

Not reported Not reported

Not reported

Not reported

Not reported

#### 5145 NORTH DORT HIGHWAY, 1420 EAST PIERSON ROAD, 5 (Continued)

1024326156

**EDR ID Number** 

**EPA ID Number** 

Other metals cleaned: Not reported Not reported Other contaminants found: Not reported Other contams found description: PAHs found: Not reported PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Sediments cleaned: Soil affected:

Not reported Not reported Soil cleaned up: Not reported Surface water cleaned: Not reported VOCs found: Not reported VOCs cleaned: Not reported Not reported Cleanup other description: Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported Past use residential acreage: Not reported Surface Water: Not reported Not reported Past use commercial acreage: Past use industrial acreage: Not reported Future use greenspace acreage: Not reported Future use residential acreage: Not reported Not reported Future use commercial acreage: Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported Arsenic cleaned up: Not reported Cadmium cleaned up: Not reported Chromium cleaned up: Not reported Copper cleaned up: Not reported Iron cleaned up: Not reported mercury cleaned up: Not reported Nickel Cleaned Up: Not reported No clean up: Not reported Pesticides cleaned up: Not reported Selenium cleaned up: Not reported SVOCs cleaned up: Not reported Not reported Unknown clean up: Arsenic contaminant found: Not reported Cadmium contaminant found: Not reported Not reported Chromium contaminant found: Not reported Copper contaminant found: Iron contaminant found: Not reported Mercury contaminant found: Not reported Nickel contaminant found: Not reported No contaminant found: Not reported Not reported Pesticides contaminant found:

Selenium contaminant found:

Unknown contaminant found:

Media affected Bluiding Material: Media affected indoor air:

Building material media cleaned up:

SVOCs contaminant found:

Future Use: Multistory

Indoor air media cleaned up:

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

Not reported

#### 5145 NORTH DORT HIGHWAY, 1420 EAST PIERSON ROAD, 5 (Continued)

1024326156

Not reported Unknown media cleaned up: Past Use: Multistory Not reported Property Description: Not reported Below Poverty Number: 92 Below Poverty Percent: 59.4% Meidan Income: 702 Meidan Income Number: 137 Meidan Income Percent: 88.4% Vacant Housing Number: 28 30.7% Vacant Housing Percent: Unemployed Number: 15 Unemployed Percent: 9.7%

I56 ENVIRONMENTAL RUBBER RECYCLING INC MI SWRCY S111953349
West 6515 NORTH DORT HIGHWAY MI WDS N/A

1/8-1/4 FLINT, MI 48505

0.184 mi.

970 ft. Site 3 of 3 in cluster I

Actual: SWRCY: 752 ft. SR No:

Focus Map:

Contact Phone1: Not reported EMail: Not reported Website: Not reported Location Description: Not reported Materials Accepted: ,Tires Services: Not reported Not reported Collection: Service Area: Not reported Notes: Not reported

Hours of Operation: Mon 8:00am 4:00pm Tue 8:00am 4:00pm Wed 8:00am 4:00pm Thu 8:00am

4:00pm Fri 8:00am 4:00pm Sat Closed Sun Closed

Hazerdous Waste: Not reported E Scrap: Not reported Other: Not reported

WDS:

Site Id: MIG000056367

WMD Id: 427801

Site Specific Name: ENVIRONMENTAL RUBBER RECYCLING

Not reported

Mailing Address: 6515 N DORT HWY

Mailing City/State/Zip: 48505
Mailing County: GENESEE

M57 MICHIGAN STATE POLICE - FANG RCRA NonGen / NLR 1014924205
East 1806 E WEBSTER RD MIK149745365

1/8-1/4 FLINT, MI 48505

0.186 mi.

982 ft. Site 1 of 2 in cluster M

Actual: RCRA NonGen / NLR:

**750 ft.** Date form received by agency: 12/20/2011

Focus Map: Facility name: MICHIGAN STATE POLICE - FANG

Facility address: 1806 E WEBSTER RD

FLINT, MI 48505

Distance Elevation

ation Site Database(s) EPA ID Number

# MICHIGAN STATE POLICE - FANG (Continued)

1014924205

**EDR ID Number** 

EPA ID: MIK149745365 Mailing address: P O BOX 614

GRAND BLANC, MI 48480

Contact: THOMAS COLE
Contact address: Not reported
Not reported

Contact country: US

Contact telephone: 810-223-8328 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: MICHIGAN STATE POLICE - FANG

Owner/operator address: Not reported Not reported Owner/operator country: Not reported

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: State Owner/Operator Type: Operator Owner/Op start date: 12/20/2011 Owner/Op end date: Not reported

Owner/operator name: MICHIGAN STATE POLICE - FANG

Owner/operator address: Not reported

Not reported

Not reported Owner/operator country: Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: State Owner/Operator Type: Owner Owner/Op start date: 12/20/2011 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

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **MICHIGAN STATE POLICE - FANG (Continued)**

1014924205

S108036275

N/A

MI INVENTORY

MI PART 201

**ECHO** 

Hazardous Waste Summary:

Waste code: D001

Waste name: **IGNITABLE WASTE** 

Violation Status: No violations found

58 **MARATHON ASHLAND FLINT TERMINAL** 

G-6065 N. DORT HIGHWAY West

0.186 mi. 984 ft.

1/8-1/4 FLINT, MI 48506

Actual: INVENTORY: 751 ft.

Bea Number: Not reported Township: Flint Focus Map: District: Lansing

Data Source: Part 201 Latitude: 43.06755 Longitude: -83.67445

PART 201:

25000033 Facility ID:

**Facility Status:** Interim Response in progress Source: Gasoline Service Station

SAM Score: 28

SAM Score Date: 06/27/2005 Township: 8N 7E Range: Section: 29

Quarter: Not reported Quarter/Quarter: Not reported

1,2,4 TMB; 1,3,5 TMB; 2-Methylnaphthalene; Benzene; Ethylbenzene; Pollutants:

Naphthalene; Toluene; Xylenes

J59 **TRANS MANIA** RCRA NonGen / NLR 1000691446 West 7045 N DORT HWY **FINDS** MID985642164

1/8-1/4 FLINT, MI 48505

0.188 mi.

990 ft. Site 4 of 4 in cluster J

Actual: RCRA NonGen / NLR:

755 ft. Date form received by agency: 12/31/2002 Facility name: TRANS MANIA Focus Map: Facility address: 7045 N DORT HWY 13

FLINT, MI 48505 MID985642164 EPA ID: Contact: ODIS SKAGGS Contact address: 7045 N DORT HWY FLINT, MI 48505

Contact country: US

Contact telephone: 313-789-5338 Contact email: Not reported

EPA Region: 05

Classification: Non-Generator

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

Direction Distance Elevation

Site Database(s) EPA ID Number

TRANS MANIA (Continued) 1000691446

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported

Not reported Not reported

Owner/operator country: Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Operator Owner/Operator Type: 01/01/2002 Owner/Op start date: 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 Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner 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

Historical Generators:

Date form received by agency: 05/11/1992
Site name: TRANS MANIA

Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

**EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

## **TRANS MANIA (Continued)**

1000691446

A100253135

N/A

MI AST

**EDR ID Number** 

FINDS:

Registry ID: 110003671134

Environmental Interest/Information System

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.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000691446 Registry ID: 110003671134

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003671134

\_\_\_\_

60 AIRGAS INC #17 West 0 N DORT 1/8-1/4 FLINT, MI 48505

0.188 mi. 992 ft.

Actual: AST:

756 ft. Focus Map: 10 

 Facility ID:
 92084158

 Facility Phone:
 (810) 785-7877

 Owner Name:
 AIRGAS INC #17

 Owner Address:
 G5075 N DORT HWY

 Owner City,St,Zip:
 FLINT, MI 48505-1826

Owner County: Not reported
Owner Contact: Not reported
Owner Telephone: 8107857877
District: 2

Contact: Mr Tim Terry
List Status: Not reported
Date of Collection: 01/11/2001
Accuracy: 100 FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Description Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Horizontal Datum: NAD83 Latitude: 43.0791460 Longitude: -83.674523

Tank Id: ATK-048138-15
Tank Status: Currently In Use

Capacity (in gallons): 1000
Installation Date: 10/19/1998
Substance Stored: LPG
Removed/Closed Date: Not reported

Direction Distance

Elevation Site **EPA ID Number** Database(s)

AIRGAS INC #17 (Continued) A100253135

Tank Id: ATK-138599-15 Tank Status: Currently In Use

Capacity (in gallons): 1000 Installation Date: 04/27/2011 Substance Stored: LPG Removed/Closed Date: Not reported

61 INTERNATIONAL TRANSMISSION COMPANY LLC RCRA-CESQG 1010320031 MIK432355345

1389 E STANLEY RD East 1/8-1/4 **MOUNT MORRIS, MI 48458** 

0.188 mi. 993 ft.

Actual: RCRA-CESQG:

792 ft. Date form received by agency: 09/01/2006

Facility name: INTERNATIONAL TRANSMISSION COMPANY LLC Focus Map:

Facility address: 1389 E STANLEY RD

MOUNT MORRIS, MI 48458

EPA ID: MIK432355345

Mailing address: 39500 ORCHARD HILL PL

> NOVI. MI 48375 STEVE SCZYTKO

Contact: Contact address: 1389 E STANLEY RD

MOUNT MORRIS, MI 48458

Contact country: US

734-547-0266 Contact telephone: Contact email: Not reported

EPA Region: 05

Conditionally Exempt Small Quantity Generator Classification:

Handler: generates 100 kg or less of hazardous waste per calendar Description:

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: METC-MICHIGAN ELECTRICAL TRANSMISSION CO

Owner/operator address: Not reported Not reported Owner/operator country: Not reported Owner/operator telephone: Not reported

Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 09/01/2006 Owner/Op end date: Not reported **EDR ID Number** 

Direction Distance Elevation

evation Site Database(s) EPA ID Number

## INTERNATIONAL TRANSMISSION COMPANY LLC (Continued)

1010320031

**EDR ID Number** 

Owner/operator name: ITC TRANSMISSION

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator fax: Not reported Owner/operator extension: Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 09/01/2006 Owner/Op end date: Not reported

Owner/operator name: CONSUMERS ENERGY CO

Owner/operator address: Not reported

Not reported

Not reported Owner/operator country: Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 01/01/1990 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

# Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE WASTE

Violation Status: No violations found

Direction Distance

Elevation Site Database(s) EPA ID Number

62 CONSUMERS ENERGY RCRA-CESQG 1018276299
East 2014 E MT. MORRIS ROAD FINDS MIK781025921

MOUNT MORRIS, MI 48458 ECHO

1/8-1/4 0.197 mi. 1041 ft.

Actual: RCRA-CESQG:

**805 ft.** Date form received by agency: 04/17/2017

Focus Map: Facility name: CONSUMERS ENERGY
4 Facility address: 2014 E MT. MORRIS ROAD

MOUNT MORRIS, MI 48458

EPA ID: MIK781025921

Mailing address: 1945 W PARNELL RD

JACKSON, MI 49201

Contact: MICHAEL MOLER
Contact address: Not reported

Not reported

Contact country: Not reported Contact telephone: 517-788-1472

Contact email: MICHAEL.MOLER@CMSENERGY.COM

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

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

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: CONSUMERS ENERGY

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/17/2015
Owner/Op end date: Not reported

Owner/operator name: CONSUMERS ENERGY

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

**EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

# **CONSUMERS ENERGY (Continued)**

1018276299

**EDR ID Number** 

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/17/2015
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: Nο 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

**Historical Generators:** 

Date form received by agency: 05/05/2016

Site name: CONSUMERS ENERGY Classification: Small Quantity Generator

Date form received by agency: 01/05/2016

Site name: CONSUMERS ENERGY Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001

Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110067207034

Environmental Interest/Information System

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.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1018276299

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**CONSUMERS ENERGY (Continued)** 1018276299

Registry ID: 110067207034

Not reported

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110067207034

N63 G-5135, G-5145 & G-5155 NORTH DORT HWY MI INVENTORY S114035191 N/A

G-5135, G-5145 & G-5155 NORTH DORT HWY West 1/8-1/4 **GENESEE** (County), MI

0.199 mi.

1051 ft. Site 1 of 3 in cluster N

INVENTORY: Actual:

750 ft. Bea Number: 201201703LA Genessee Township Township: Focus Map:

District: Lansing 13 Data Source: BEA Not reported Latitude: Longitude:

M64 WEBSTER ROAD LANDFILL MI HIST LF S100069428 N/A

East 1850 E WEBSTER RD SIDE

1/8-1/4 FLINT, MI 48502

0.202 mi.

1067 ft. Site 2 of 2 in cluster M

Actual: Historical LF:

749 ft. Facility ID: 25000013 Status: **INACTIVE** Focus Map: Not reported 13 Contact:

Facility Phone: Not reported Facility Fax: Not reported Facility Type: Not reported Facility Email: Not reported Not reported Facility is Open: Facility Type: Landfill Type III Facility Contact: Not reported

County Code: 25 000013 Facility Number: Not reported Staff: Active: No

Permit Date: Not reported Permit Number: Not reported

License Date:

License No: Not reported Not reported No Waste: Enforcement: Not reported Exp Letters: Not reported Operator Name: Not reported Not reported Operator Contact: Not reported Operator Address: Operator City, St, Zip: Not reported Not reported Operator Telephone: Operator Fax: Not reported Operator Email: Not reported Owner Name: CITY OF FLINT Owner Contact: Not reported Attention: Not reported

Owner Address: Χ

Direction Distance Elevation

Site Database(s) EPA ID Number

## WEBSTER ROAD LANDFILL (Continued)

S100069428

**EDR ID Number** 

Owner City,St,Zip: FLINT, MI
Owner Telephone: Not reported
Owner Fax: Not reported
Owner Email: Not reported
District: Shawassee
Section: 29

Permit Applicant: Not reported

Permit Applicant Contact: ANTHONY DEBLAIRE DIR PUB WRKS

Permit Applicant Address: 1101 S SAGINAW ST Permit Applicant City, St, Zip: FLINT, MI 48502 Permit Applicant Phone: Not reported Application Type: Government Liner Information: Not reported Nature of Wastes Allowed: Not reported Township: Not reported Section Number: Not reported Township Section: Not reported District: Not reported Business Type: Not reported County Description: Not reported County 2 Description: Not reported Liner Type: Not reported Reported Date: Not reported Amount: 0.00 Financial Instrument: Not reported Not reported Fund Type: Not reported Issued Date: Expires: Not reported Expiry: Not reported Licensed: Not reported

Comments:

Date of Expiry of Current License:

Acreage Currently Licensed: 0.000 Acres Certified Closed: 0.000 Issue of 1st Construction Permit Date: Not reported Acres Given in 1st Construction Permit: 0.000 Issue of 2nd Construction Permit Date: Not reported Acres Given in 2nd Construction Permit: 0.000 Issue of 3rd Construction Permit Date: Not reported 0.000 Acres Given in 3rd Construction Permit: Restrictive Deed Covenant Filed: Not reported Perpetual Care Fund Type: Not reported Perpetual Care Fund Signed: Not reported Perpetual Care Fund Agreement Signed: Not reported Groundwater Monitoring System Exists: Not reported Date landill Certified Closed: Not reported Received Waste on or After Oct. 9, 1991: Not reported Site Monitorable Under Definition of New Rules:Not reported

Not reported

Not reported

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

O65 GENESEE RECYCLING (FERROUS PROCESSING & TRADING)

MI SWRCY S105977715 MI SPILLS N/A

WSW 5107 NORTH DORT HIGHWAY 1/8-1/4 FLINT, MI 48505

0.203 mi.

1071 ft. Site 1 of 4 in cluster O

Actual: SWRCY: 749 ft. SR No

Focus Map:

SR No: Not reported
Contact Phone1: Not reported
EMail: Not reported
Website: Not reported

Location Description: Not reported Materials Accepted: ,Metals Not reported Services: Collection: Not reported Service Area: Not reported Notes: Not reported Hours of Operation: Not reported Hazerdous Waste: Not reported E Scrap: Not reported Other: Not reported

PEAS:

Incident Date: 08/23/2001
Office Status: Not reported
Initials of Incoming Operator: Not reported
Time Received by DNRE Staff: Not reported
Time Occur: Not reported
Date Of PEAS Call: 08/23/2001

Complainant / Company: James Dillon w/Consumers Energy

Complainant Address: 3201 E. Court St.

Company Involved: James Dillon w/Consumers Energy

DEQ Division Involved: ERD

Incident Description: approximately five gallons of mineral oil to the ground.

Incident Description:

Not reported
Incident Description:

Not reported

Incident Description: A truck struck a pole and knocked the transformer off the pole.

Spilled

Not reported Description: Date Discovered: Not reported Not reported Time Discovered: Office/After Hours: Not reported Party Involved - Phone 1: Not reported Party Involved - Phone 2: Not reported Ongoing?: Not reported Release Secured: Not reported Not reported Source: Source decode: Not reported Lead Division 2: Not reported Party Involved Type: Not reported Not reported Latitude: Not reported Longitude: Not reported Release/Incident Ctrl: Release/Incident Ctrl Detail: Not reported Not reported Special Referral:

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

66 JET AUTO REPAIR IC RCRA NonGen / NLR 1010319430 West 5201 N DORT HWY MIK168939957

1/8-1/4 FLINT, MI 48505 0.204 mi. 1075 ft.

Actual: RCRA NonGen / NLR:

750 ft. Date form received by agency: 07/31/2006

Focus Map: Facility name: JET AUTO REPAIR IC Facility address: 5201 N DORT HWY FLINT, MI 48505

EPA ID: MIK168939957 RON WILLIAMSON Contact: Contact address: 5201 N DORT HWY

FLINT, MI 48505

Contact country:

Contact telephone: 810-655-6684 Contact email: Not reported

EPA Region: 05

Classification: Non-Generator

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

Owner/Operator Summary:

**RON WILLIAMSON** Owner/operator name:

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 05/26/2002 Owner/Op end date: Not reported

**RON WILLIAMSON** Owner/operator name:

Owner/operator address: Not reported Not reported Owner/operator country: Not reported

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 05/26/2002 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

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**JET AUTO REPAIR IC (Continued)** 

1010319430

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

Hazardous Waste Summary:

Waste code: D001

Waste name: **IGNITABLE WASTE** 

Violation Status: No violations found

067 RESOURCE RECOVERY OF FLINT INC MI SWF/LF S110532280 5125 N DORT HWY **MI Financial Assurance** N/A

wsw 1/8-1/4 FLINT, MI 48505 MI WDS

0.204 mi.

Site 2 of 4 in cluster O 1075 ft.

Actual: SWF/LF:

749 ft. Name: RESOURCE RECOVERY OF FLINT INC

Address: 5125 N DORT HWY Focus Map: FLINT, MI 48505 City,State,Zip:

470533 Facility ID: Site ID: Not reported

RESOURCE RECOVERY OF FLINT INC Specific Name:

Contact Name: Not reported Contact Telephone: Not reported

MI Financial Assurance 2:

Region: 2 Site ID: 470533 PCFT Type: Not reported **PCFT Status:** Active Contact Info: LANSING Account Number: Not reported Date Signed by Facility: Not reported Not reported Date Executed by DEQ: Current Balance: 4000 Current Balance Date: 09/07/2010

RESOURCE RECOVERY OF FLINT INC Specific Name:

Project Number: Not reported Original Balance Date: 7/28/2010 Original Balance: 4000

Regulatory Program: Certificate of Deposit

Notes: Not reported SW Disp Area Type: Not reported SW Disp Status Type: Not reported

2 Region: Site ID: 470533 PCFT Type: Not reported **PCFT Status:** Released LANSING Contact Info: Account Number: Not reported Not reported Date Signed by Facility:

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## RESOURCE RECOVERY OF FLINT INC (Continued)

S110532280

Date Executed by DEQ: Not reported 4000 Current Balance: Current Balance Date: 06/21/2002

Specific Name: RESOURCE RECOVERY OF FLINT INC

Project Number: Not reported Original Balance Date: 1/1/1970 4000 Original Balance: Regulatory Program: Letter of Credit Not reported Notes:

SW Disp Area Type: Not reported SW Disp Status Type: Not reported

WDS:

Site Id: Not reported WMD Id: 470533

Site Specific Name: RESOURCE RECOVERY OF FLINT INC

5125 N DORT HWY Mailing Address:

Mailing City/State/Zip: 48505 Mailing County: **GENESEE** 

**O68** SPOONER METALS, LLC MI SWRCY S110531649

SW **5032 N DORT HIGHWAY** MI AIRS N/A 1/8-1/4 MI WDS FLINT, MI 48505

0.204 mi.

1077 ft. Site 3 of 4 in cluster O

SWRCY: Actual: 748 ft. SR No:

Focus Map: 13

Not reported Contact Phone1: Not reported EMail: Not reported Website: Not reported Location Description: Not reported

,Metals,Other Recycling Materials Accepted:

Not reported Services: Collection: Not reported Service Area: Not reported Notes: Not reported Hours of Operation: Not reported Hazerdous Waste: Not reported Not reported E Scrap: Other: Not reported

AIRS:

SPOONER METALS, LLC Name: Address: 5032 N DORT HIGHWAY

City,State,Zip: FLINT, MI 48505

State Registration Number: N6823 Naics Code: Not reported Contact Email: dsplan@fritzinc.com DAVID SPLAN Contact Name: Contact Phone: 7343623231

Contact Address: (same as site address)

Contact City, St, Zip: Not reported Permit Number: 92-00 Date Received: 03/29/2000

SCRAP METAL SHREDDER W/ CYCLONE AND WET SCRUBBER Application Reason:

Record Type: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# SPOONER METALS, LLC (Continued)

S110531649

State County FIPS: Not reported Not reported Facility Category: SIC Primary: Not reported Tribal Code: Not reported Facility Status Code: Not reported Facility Status: Active Supplemental Location Text: Not reported **Business Name:** Not reported **Principal Product:** Not reported Principal Product Description: Not reported

UTM Zone (Geo Coordinates Universal Transverse Mercator System): Not reported

**UTM Horizontal Coord:** Not reported **UTM Vertical Coord:** Not reported Mailing Name: Not reported Mailing Contact Person: Not reported Mailing Street: Not reported Mailing City: Not reported Mailing State: Not reported Mailing Zip: Not reported Mailing Zip 4 Extension: Not reported Compliance Person: Not reported Compliance Area Code: Not reported Compliance Phone Number: Not reported **Emission Inventory Contact Person:** Not reported El Contact Area Code: Not reported El Contact Phone Number: Not reported Permit Contact Person: Not reported Permit Contact Person Area Code: Not reported Permit Contact Person Phone Number: Not reported Federal Employer Id Number: Not reported # Of Employees: Not reported Reporting Year: Not reported Date Record Was Created: Not reported

WDS:

MIG000049089 Site Id:

WMD Id: 438605

Site Specific Name: SPOONER AUTO PARTS

Mailing Address: 5032 N DORT HWY

Mailing City/State/Zip: 48505 GENESEE Mailing County:

69 MI DEPT/NATURAL RESOURCES AND ENVIRONMENT

**5135 W BLVD DR** NE 1/8-1/4 FLINT, MI 48502

0.205 mi. 1085 ft.

Actual: RCRA NonGen / NLR:

722 ft. Date form received by agency: 04/28/2010

MI DEPT/NATURAL RESOURCES AND ENVIRONMENT Facility name: Focus Map:

Facility address: 5135 W BLVD DR

FLINT, MI 48502 EPA ID: MIK289424889

Mailing address: PO BOX 30242 LANSING, MI 48909

Contact: JAMES INNES 1014391764

MIK289424889

RCRA NonGen / NLR

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

## MI DEPT/NATURAL RESOURCES AND ENVIRONMENT (Continued)

1014391764

**EDR ID Number** 

Contact address: 5135 W BLVD DR

FLINT, MI 48502

Contact country: US

Contact telephone: 517-335-6241 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: MI RRD Owner/operator address: Not reported Not reported Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: State Owner/Operator Type: Operator 04/28/2010 Owner/Op start date: Owner/Op end date: Not reported

Owner/operator name: MI RRD
Owner/operator address: Not reported

Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: State Owner/Operator Type: Owner Owner/Op start date: 04/28/2010

#### Handler Activities Summary:

Owner/Op end date:

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

# Hazardous Waste Summary:

. Waste code: D001

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### MI DEPT/NATURAL RESOURCES AND ENVIRONMENT (Continued)

1014391764

. Waste name: **IGNITABLE WASTE** 

Violation Status: No violations found

**NATIONAL WELDING SUPPLY CO** 070

MI UST U000253491

N/A

wsw **5075 N DORT HWY** 1/8-1/4 FLINT, MI 48505

0.206 mi.

1088 ft. Site 4 of 4 in cluster O

UST: Actual:

749 ft. CLOSED Facility Type: Facility ID: 00000461 Focus Map: 13

Facility Region:

Owner Name: NATL WELDING SUPPLY CO

Owner Address: 5075 N DORT HWY

Owner City: **FLINT** Owner State: MI

48505-1826 Owner Zip: Not reported Owner Contact: Owner Phone: 3137857877 JERRY WERSCHKY Contact: Contact Phone: (313) 785-7877

Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID:

Capacity: 1000

Tank Status: Removed from Ground

Gasoline Substance: Install Date: 03/17/1966 Remove Date: 08/01/1990 UTK-106203-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.07914 Longitude: -83.67452

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

N71 **DIAMOND BATTERIES** RCRA NonGen / NLR 1019327635 MIK159523243

West **4617 THETFORD** 1/8-1/4 FLINT, MI 48505

0.209 mi.

1101 ft. Site 2 of 3 in cluster N Actual: RCRA NonGen / NLR:

750 ft. Date form received by agency: 06/22/2016

Facility name: **DIAMOND BATTERIES** Focus Map: Facility address: 4617 THETFORD

FLINT, MI 48505 EPA ID: MIK159523243

Mailing address: 6165 S BYRON RD **DURAND, MI 48429** 

ANDREW J MCBRIDE Contact:

Contact address: Not reported Not reported

Contact country: Not reported 810-789-8380 Contact telephone:

Contact email: DIABATT@ATT.NET

EPA Region: 05

Classification: Non-Generator

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

Owner/Operator Summary:

ANDREW MCBRIDE Owner/operator name:

Owner/operator address: Not reported

Not reported Not reported

Not reported

Owner/operator country: Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 04/01/2009

Owner/Op end date: Not reported

Owner/operator name: ANDREW MCBRIDE

Owner/operator address: Not reported Not reported

Not reported Owner/operator country: Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Private Legal status: Owner/Operator Type: Owner Owner/Op start date: 04/01/2009

Handler Activities Summary:

Owner/Op end date:

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 **EDR ID Number** 

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**DIAMOND BATTERIES (Continued)** 

1019327635

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

Universal Waste Summary:

**Batteries** Waste type: Accumulated waste on-site: Yes Generated waste on-site: Yes

Hazardous Waste Summary:

Waste code: D001

**IGNITABLE WASTE** Waste name:

Violation Status: No violations found

N72 4302 JAMES P. COLE BOULEVARD MI INVENTORY \$114024251 N/A

West 4302 JAMES P. COLE BOULEVARD

1/8-1/4 **GENESEE (County), MI** 

0.215 mi.

1135 ft. Site 3 of 3 in cluster N

INVENTORY: Actual:

750 ft. Bea Number: 200901405LA Township: Flint Focus Map:

13

District: Lansing Data Source: BEA Latitude: 43.06115 Longitude: -83.67484

**REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPON** 73

MI INVENTORY S103085613 wsw 1245 E COLDWATER RD MI PART 201 N/A

1/8-1/4 FLINT, MI 48505 **MI Financial Assurance** 0.216 mi.

1141 ft.

Actual: INVENTORY:

810 ft. Bea Number: Not reported Township: temptownship Focus Map: District: Lansing

Data Source: Part 201 Latitude: 43.09803 Longitude: -83.68388

PART 201:

Facility ID:

**Facility Status: Contact Lead Division for current status** 

Source: **Automotive Services** 

SAM Score: 36

SAM Score Date: 10/16/1991 MI WDS

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

S103085613

S100070410

N/A

MI PART 201

MI INVENTORY

**EDR ID Number** 

Township: 08N 07E Range: Section: 18 Quarter: NE Quarter/Quarter: NW

Pollutants: CI; CN; Pb; Ni; Sulfate

MI Financial Assurance 1:

EPA ID: MID005356860 Mechanism Type: Trust Fund Total Amount: \$11,636,056.00

WDS:

Site Id: MIR000020743 WMD Id: 411250

Site Specific Name: FORMER PEREGRINE COLDWATER ROAD SITE

2930 ECORSE RD Mailing Address:

Mailing City/State/Zip: 48197

Mailing County: WASHTENAW

Site Id: MID005356860

WMD Id: 393431

Site Specific Name: RACER COLDWATER ROAD LANDFILL

25000023

Mailing Address: 500 WOODWARD AVE

Mailing City/State/Zip: 48226 Mailing County: WAYNE

MI HIST LF

74 SPOONER METALS, INC. WNW **5022 N. DORT HIGHWAY FLINT, MI 48505** 

1/8-1/4 0.220 mi. 1162 ft.

Actual: Historical LF: Facility ID: 745 ft.

Focus Map:

Status: **INACTIVE** Not reported Contact: Facility Phone: Not reported Facility Fax: Not reported Facility Type: Not reported Facility Email: Not reported Facility is Open: Not reported Facility Type: Landfill Type II Facility Contact: VIRGIL SPO

County Code: 25 Facility Number: 000023 Not reported Staff: Active: No

Permit Date:

Not reported Permit Number: Not reported

License Date: 11

License No: Not reported No Waste: Not reported Enforcement: Not reported Exp Letters: Not reported Not reported Operator Name: Not reported Operator Contact:

Direction Distance Elevation

vation Site Database(s) EPA ID Number

Not reported

## SPOONER METALS, INC. (Continued)

S100070410

**EDR ID Number** 

Operator Address: Not reported
Operator City,St,Zip: Not reported
Operator Telephone: Not reported
Operator Fax: Not reported
Operator Email: Not reported

Owner Name: DISCOUNT AUTO PARTS

Not reported Owner Contact: Attention: VIRGIL SPOONER 5000 N DORT HWY Owner Address: Owner City, St, Zip: FLINT, MI 48502 Owner Telephone: Not reported Owner Fax: Not reported Owner Email: Not reported District: Shawassee Section: Not reported

Permit Applicant: E I DUPONT DENEMOURS & CO INC
Permit Applicant Contact: VIRGIL SPOONER

Permit Applicant Contact: Permit Applicant Address: 4145 CHERYL DRIVE Permit Applicant City, St, Zip: FLINT, MI 48502 Permit Applicant Phone: Not reported Application Type: Private Liner Information: Not reported Nature of Wastes Allowed: Not reported Township: Not reported Section Number: Not reported Not reported Township Section: District: Not reported **Business Type:** Not reported County Description: Not reported County 2 Description: Not reported Liner Type: Not reported Reported Date: Not reported

Amount: 0.00 Financial Instrument: Not reported Not reported Fund Type: Not reported Issued Date: Expires: Not reported Expiry: Not reported Licensed: Not reported Comments: Not reported

Date of Expiry of Current License:

Acreage Currently Licensed: 0.000 Acres Certified Closed: 0.000 Issue of 1st Construction Permit Date: Not reported Acres Given in 1st Construction Permit: 0.000 Issue of 2nd Construction Permit Date: Not reported Acres Given in 2nd Construction Permit: 0.000 Issue of 3rd Construction Permit Date: Not reported Acres Given in 3rd Construction Permit: 0.000 Restrictive Deed Covenant Filed: Not reported Perpetual Care Fund Type: Not reported Perpetual Care Fund Signed: Not reported Perpetual Care Fund Agreement Signed: Not reported Groundwater Monitoring System Exists: Not reported

Date landill Certified Closed: Not reported Received Waste on or After Oct. 9, 1991: Not reported Site Monitorable Under Definition of New Rules:Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### SPOONER METALS, INC. (Continued)

S100070410

PART 201:

25000029 Facility ID:

Facility Status: Inactive - no actions taken to address contamination

Source: Metal Processing

SAM Score:

01/08/2007 SAM Score Date: Township: 8N 7E Range: Section: 32

Quarter: Not reported Quarter/Quarter: Not reported

Pollutants: As; Ba; Benzene; BBP; Cd; Ethylbenzene; Fluoranthene; Pb; MTBE;

Methylene chloride; Naphthalene; Phenanthrene; Ag; PCE; Toluene; TCE;

VC; Xylenes; Zn; Hg

INVENTORY:

Bea Number: Not reported Township: Flint District: Lansing Data Source: Part 201 Latitude: 43.05865 Longitude: -83.67256

P75 MI INVENTORY **RENO AUTO PARTS, INC.** S114024360 N/A

West **G-5273 N DORT HIGHWAY** FLINT, MI 48505

1/8-1/4 0.221 mi.

1165 ft. Site 1 of 2 in cluster P

Actual: INVENTORY:

759 ft. Bea Number: Not reported

Focus Map: Township: Flint District: Lansing 10

Data Source: Part 201 Latitude: 43.08266 Longitude: -83.67523

P76 **G-5273 NORTH DORT HIGHWAY** MI INVENTORY S114024359 West **G-5273 NORTH DORT HIGHWAY** N/A

1/8-1/4 GENESEE (County), MI 48505

0.221 mi.

1165 ft. Site 2 of 2 in cluster P

INVENTORY: Actual:

759 ft. Bea Number: 201101625LA

Township: Flint Focus Map: Lansing District: 10

Data Source: BEA 43.08266 Latitude: Longitude: -83.67523

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

77 **AMIRA ENTERPRISES LIMITED** RCRA NonGen / NLR 1000528573 MID985609924

**East G8010 N DORT HWY** 1/8-1/4 **MOUNT MORRIS, MI 48458** 

0.223 mi. 1176 ft.

Actual: RCRA NonGen / NLR:

786 ft. Date form received by agency: 12/30/2011

Focus Map: Facility name: AMIRA ENTERPRISES LIMITED

Facility address: G8010 N DORT HWY

MOUNT MORRIS, MI 48458 EPA ID: MID985609924

GEORGE Y ABU-AITA Contact:

Contact address: Not reported

Not reported

Contact country:

Contact telephone: 810-686-0025

Contact email: AMIRA001@SBCGLOBAL.NET

EPA Region: 05

Classification: Non-Generator

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

Owner/Operator Summary:

Owner/operator name: GEORGE ABU-AITA

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator

Owner/Op start date: 09/01/2000 Owner/Op end date: Not reported

NO ACTIVE O/OP AS NOT GENERATING WASTE Owner/operator name:

Owner/operator address: Not reported Not reported Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported

Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 12/31/2011 Owner/Op end date: Not reported

NO ACTIVE O/OP AS NOT GENERATING WASTE Owner/operator name:

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: Private

Owner/Operator Type: Operator **EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

### AMIRA ENTERPRISES LIMITED (Continued)

1000528573

**EDR ID Number** 

Owner/Op start date: 12/31/2011
Owner/Op end date: Not reported

Owner/operator name: GEORGE ABU-AITA

Owner/operator address: Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported

Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 09/01/2000 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: Nο 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: Nο Used oil transporter: No

# Historical Generators:

Date form received by agency: 07/24/2007

Site name: AMIRA ENTERPRISES LIMITED Classification: Small Quantity Generator

Date form received by agency: 12/31/2002

Site name: AMIRA ENTERPRISES LIMITED Classification: Not a generator, verified

Date form received by agency: 04/04/1991

Site name: AMIRA ENTERPRISES LIMITED Classification: Small Quantity Generator

### Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

Direction Distance

Elevation Site Database(s) EPA ID Number

Q78 D AND M CYLINDERHEAD SPECIALIST RCRA-CESQG 1004722679

East 7409 N DORT HWY FINDS MID061646477

1/8-1/4 MOUNT MORRIS, MI 48458 ECHO

0.230 mi.

1215 ft. Site 1 of 2 in cluster Q

Actual: RCRA-CESQG:

**803 ft.** Date form received by agency: 06/19/1989

Focus Map: Facility name: D AND M CYLINDERHEAD SPECIALIST

7 Facility address: 7409 N DORT HWY

MOUNT MORRIS, MI 48458

EPA ID: MID061646477
Contact: DOUGLAS MCBRIDE
Contact address: 7409 N DORT HWY

MOUNT MORRIS, MI 48458

Contact country: US

Contact telephone: 313-686-6974 Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

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: ERNIE BANKS

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private

Owner/Operator Type: Owner
Owner/Op start date: 06/19/1989
Owner/Op end date: Not reported

Owner/operator name: ERNIE BANKS
Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Owner/operator extension: Not reported
Private

Owner/Operator Type: Operator

**EDR ID Number** 

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

#### D AND M CYLINDERHEAD SPECIALIST (Continued)

1004722679

**EDR ID Number** 

Owner/Op start date: 06/19/1989 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

#### Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110003600372

Environmental Interest/Information System

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.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004722679 Registry ID: 110003600372

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003600372

Direction Distance

Elevation Site Database(s) EPA ID Number

R79 BP PRODUCTS NORTH AMERICA INC RCRA-CESQG 1007101544

East 7525 N DORT HWY

1/8-1/4 MOUNT MORRIS, MI 48458

0.231 mi.

1219 ft. Site 1 of 3 in cluster R
Actual: RCRA-CESQG:

**806 ft.** Date form received by agency: 05/14/2002

Focus Map: Facility name: BP PRODUCTS NORTH AMERICA INC

Facility address: 7525 N DORT HWY

MOUNT MORRIS, MI 48458 EPA ID: MIK991124447

Mailing address: 17187 N LAUREL PARK DR

LIVONIA, MI 48152

Contact: KEVIN ENDRISS
Contact address: 7525 N DORT HWY

MOUNT MORRIS, MI 48458

Contact country: US

Contact telephone: 734-953-7054 Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

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: BP PRODUCTS NORTH AMERICA INC

Owner/operator country:

Not reported
Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private

Owner/Operator Type: Owner
Owner/Op start date: 05/14/2002
Owner/Op end date: Not reported

Owner/operator name: BP PRODUCTS NORTH AMERICA INC

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

**EDR ID Number** 

MIK991124447

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **BP PRODUCTS NORTH AMERICA INC (Continued)**

1007101544

Legal status: Private Operator Owner/Operator Type: Owner/Op start date: 05/14/2002 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 No Underground injection activity: 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

#### Hazardous Waste Summary:

Waste code: D001

Waste name: **IGNITABLE WASTE** 

Violation Status: No violations found

R80 **BP PRODUCTS NORTH AMERICA INC** MI BROWNFIELDS S107136065 **East** 7525 N DORT HWY MI WDS N/A

1/8-1/4 **MOUNT MORRIS, MI 48458** 

0.231 mi.

1219 ft. Site 2 of 3 in cluster R Actual: **BROWNFIELDS:** 

806 ft. Facility ID: 00035764 Region: Focus Map:

Status: Not reported Properry Use: Not reported

BEA: No Ernie Id Number: 25000424

WDS:

Site Id: MIK991124447 WMD Id: 418582

Site Specific Name: BP PRODUCTS NORTH AMERICA INC

Mailing Address: 17187 N LAUREL PARK DR

Mailing City/State/Zip: 48152 Mailing County: WAYNE

Direction Distance

Elevation Site Database(s) EPA ID Number

 R81
 FEDCHENKO SITE
 MI LUST
 U000715387

 East
 7525 N DORT HWY
 MI UST
 N/A

1/8-1/4 MOUNT MORRIS, MI 48458 MI INVENTORY

0.231 mi.

1219 ft. Site 3 of 3 in cluster R

Actual: LUST: 806 ft. Facili

806 ft. Facility ID: 00035764

Focus Map:

Source: STATE OF MICHIGAN
Owner Name: Victor Fedchenko
Owner Address: 808 Henry Ct

Owner City, St, Zip: Flushing, MI 48433-1593

Owner Contact: Not reported
Owner Phone: (313) 659-3899

Country: USA
District: Lansing

Site Name: Former Fedchenko Site

Latitude: 43.11929 Longitude: -83.67683 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-0010-07 Release Date: 08/08/2006

Substance Released: Gasoline, Gasoline, Gasoline

Release Status: Open
Release Closed Date: Not reported

Leak Number: C-0053-92
Release Date: 01/13/1992
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility Type: CLOSED Facility ID: 00035764

Facility Region: 2

Owner Name: VICTOR FEDCHENKO
Owner Address: 808 HENRY CT
Owner City: FLUSHING

Owner State: MI

 Owner Zip:
 48433-1593

 Owner Contact:
 Not reported

 Owner Phone:
 3136593899

Contact: VICTOR FEDCHENKO
Contact Phone: (313) 659-3899
Date of Collection: 01/11/2001
Accuracy: 100
NAPP3

Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

FEDCHENKO SITE (Continued)

U000715387

**EDR ID Number** 

District: Lansing District Office

Tank ID: 3 Capacity: 120

Tank Status: Removed from Ground

Substance: Used Oil Not reported Install Date: 01/13/1992 Remove Date: UTK-077850-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported Tank Construction: Unknown Impressed Device: Not reported Latitude: 43.11929 Longitude: -83.67683

Facility Type: CLOSED Facility ID: 00035764

Facility Region: 2

Owner Name: VICTOR FEDCHENKO
Owner Address: 808 HENRY CT
Owner City: FLUSHING

Owner State: MI

 Owner Zip:
 48433-1593

 Owner Contact:
 Not reported

 Owner Phone:
 3136593899

Contact: VICTOR FEDCHENKO
Contact Phone: (313) 659-3899
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 250

Tank Status: Removed from Ground

Substance: Used Oil Not reported Install Date: 01/13/1992 Remove Date: UTK-077848-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported Tank Construction: Unknown Impressed Device: Not reported Latitude: 43.11929 Longitude: -83.67683

Facility Type: CLOSED

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**FEDCHENKO SITE (Continued)** 

U000715387

Facility ID: 00035764

Facility Region: 2

Owner Name: VICTOR FEDCHENKO Owner Address: 808 HENRY CT Owner City: **FLUSHING** 

Owner State:

48433-1593 Owner Zip: Owner Contact: Not reported Owner Phone: 3136593899

Contact: VICTOR FEDCHENKO Contact Phone: (313) 659-3899 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Lansing District Office District:

Tank ID:

Capacity: 1000

Tank Status: Removed from Ground

Substance: Heating Oil Not reported Install Date: Remove Date: 01/13/1992 Tank Number: UTK-077845-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported Tank Construction: Unknown Impressed Device: Not reported 43.11929 Latitude: -83.67683 Longitude:

INVENTORY:

Bea Number: Not reported Township: Not reported District: Lansing Data Source: Part 213 Latitude: 43.11929 Longitude: -83.67683

**S82 WOLVERINE FIRE PROTECTION COMPANY** East

RCRA-CESQG 1012180175

8067 N DORT HWY MIK239779614

1/8-1/4 **MOUNT MORRIS, MI 48458** 

0.232 mi.

1227 ft. Site 1 of 2 in cluster S Actual: RCRA-CESQG:

792 ft. Date form received by agency: 02/26/2009

WOLVERINE FIRE PROTECTION COMPANY Facility name: Focus Map:

Facility address: 8067 N DORT HWY

MOUNT MORRIS, MI 48458

EPA ID: MIK239779614

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

### **WOLVERINE FIRE PROTECTION COMPANY (Continued)**

1012180175

Mailing address: PO BOX 219

MOUNT MORRIS, MI 48458

AMY SHANKS Contact: 8067 N DORT HWY Contact address:

MOUNT MORRIS, MI 48458

Contact country: US

Contact telephone: 810-686-4630 Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

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:

WOLVERINE FIRE PROTECTION COMPANY Owner/operator name:

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Not reported Owner/operator extension: Private Legal status: Owner/Operator Type: Operator 01/02/1968 Owner/Op start date: Owner/Op end date: Not reported

WOLVERINE FIRE PROTECTION COMPANY Owner/operator name:

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Not reported Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 01/02/1968 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

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **WOLVERINE FIRE PROTECTION COMPANY (Continued)**

1012180175

MI UST

U000253365

N/A

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: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

#### Hazardous Waste Summary:

D001 Waste code:

Waste name: **IGNITABLE WASTE** 

Violation Status: No violations found

**WOLVERINE FIRE PROTECTION CO S83** 

**East** 8067 N DORT HWY

**MOUNT MORRIS, MI 48458** 1/8-1/4

0.232 mi.

1227 ft. Site 2 of 2 in cluster S

Actual: UST:

792 ft. Facility Type: **CLOSED** Facility ID: 00009254 Focus Map:

Facility Region:

Owner Name: WOLVERINE FIRE PROTECTION CO

Owner Address: 8067 N DORT HWY Owner City: MOUNT MORRIS

Owner State: MI

48458-1204 Owner Zip: Owner Contact: Not reported Owner Phone: 3136864630

MATTHEW CORCORAN Contact:

Contact Phone: (313) 686-4630 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

**POINT** Point Line Area:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID:

Capacity: 2000

Tank Status: Removed from Ground

Substance: Gasoline 04/17/1980 Install Date: Remove Date: 10/01/1989 UTK-089243-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

**WOLVERINE FIRE PROTECTION CO (Continued)** 

U000253365

MID985654904

MI LUST

MI UST

**FINDS** 

**ECHO** 

**EDR ID Number** 

Piping Material: Galvanized Steel
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12256 Longitude: -83.67645

84 LYONS WELL DRILLING INC RCRA-CESQG 1004724023

East 8107 N DORT HWY

1/8-1/4 MOUNT MORRIS, MI 48458

0.233 mi.

1231 ft.

Actual: RCRA-CESQG:

789 ft. Date form received by agency: 12/14/1992

Focus Map: Facility name: LYONS WELL DRILLING INC

Facility address: 8107 N DORT HWY

MOUNT MORRIS, MI 48458

EPA ID: MID985654904
Contact: GARY PRICE
Contact address: 8107 N DORT HWY

MOUNT MORRIS, MI 48458

Contact country: US

Contact telephone: 313-686-3980 Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

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

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: LYONS WELL DRILLING

Owner/operator address:

Owner/operator country:
Owner/operator telephone:
Owner/operator email:
Owner/operator fax:
Owner/operator extension:

Not reported
Not reported
Not reported
Not reported
Not reported
Not reported

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: LYONS WELL DRILLING

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

### LYONS WELL DRILLING INC (Continued)

1004724023

Owner/operator address: Not reported Not reported Not reported Owner/operator country: Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private 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: Nο 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

#### Hazardous Waste Summary:

Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

LUST:

Facility ID: 00001600

Source: STATE OF MICHIGAN
Owner Name: Lyons Well Drilling, Inc
Owner Address: G-8107 N Dort Hwy
Owner City,St,Zip: Mount Morris, MI 48458

Owner Contact: Not reported
Owner Phone: (313) 686-3980

Country: USA District: Lansing

Site Name: Lyons Well Drilling, Inc.

Latitude: 43.12658
Longitude: -83.67768
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)

Direction Distance

Elevation Site Database(s) EPA ID Number

# LYONS WELL DRILLING INC (Continued)

1004724023

**EDR ID Number** 

Leak Number: C-2179-92
Release Date: 12/08/1992
Substance Released: Gasoline, Diesel
Release Status: Closed
Release Closed Date: 08/05/1994

UST:

Facility Type: CLOSED Facility ID: 00001600

Facility Region: 2

Owner Name: LYONS WELL DRILLING, INC

Owner Address: 8107 N DORT HWY
Owner City: MOUNT MORRIS

Owner State: MI 48458 Owner Zip: Owner Contact: Not reported Owner Phone: 3136863980 **Gary Price** Contact: Contact Phone: (313) 686-3980 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 2000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 03/31/1976 12/15/1992 Remove Date: UTK-101712-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12658
Longitude: -83.67768

Facility Type: CLOSED Facility ID: 00001600

Facility Region: 2

Owner Name: LYONS WELL DRILLING, INC

Owner Address: 8107 N DORT HWY
Owner City: MOUNT MORRIS

 Owner State:
 MI

 Owner Zip:
 48458

 Owner Contact:
 Not reported

 Owner Phone:
 3136863980

 Contact:
 Gary Price

 Contact Phone:
 (313) 686-3980

 Date of Collection:
 01/11/2001

Direction Distance

Elevation Site Database(s) EPA ID Number

### LYONS WELL DRILLING INC (Continued)

1004724023

**EDR ID Number** 

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 1 Capacity: 2000

Tank Status: Removed from Ground

Substance: Diesel 03/31/1976 Install Date: Remove Date: 12/15/1992 UTK-101708-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12658
Longitude: -83.67768

FINDS:

Registry ID: 110003677628

Environmental Interest/Information System

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.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004724023 Registry ID: 110003677628

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003677628

85 FLINT WATER PLANT AND FACILITIES MI LUST 1004533907 SSW 4500 N DORT HWY MI UST N/A

SSW 4500 N DORT HWY MI UST N/A
1/8-1/4 FLINT, MI 48505 FTTS
0.236 mi.
1248 ft. MI AIRS
MI WDS

Actual:

**731 ft.** LUST:

Focus Map: Facility ID: 00037075

15 Source: STATE OF MICHIGAN

Owner Name: City of Flint

Direction Distance

Elevation Site Database(s) EPA ID Number

### FLINT WATER PLANT AND FACILITIES (Continued)

1004533907

**EDR ID Number** 

Owner Address: 1101 S Saginaw St Room 203

Owner City, St, Zip: Flint, MI 48502 Owner Contact: Not reported Owner Phone: (810) 766-7340

Country: USA
District: Lansing
Site Name: Flint Water Plant
Latitude: 43.05407
Longitude: -83.67108
Date of Collection: 11/20/2014

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-0133-02
Release Date: 03/12/2002
Substance Released: Gasoline, Diesel
Release Status: Closed
Release Closed Date: 05/01/2002

UST:

Facility Type: CLOSED Facility ID: 00037075

Facility Region: 2

Owner Name: CITY OF FLINT

Owner Address: 1101 S SAGINAW ST ROOM 203

Owner City: **FLINT** Owner State: MI Owner Zip: 48502 Owner Contact: Not reported 8107667340 Owner Phone: Not reported Contact: Contact Phone: Not reported Date of Collection: Not reported Accuracy: Not reported Horizontal Datum: Not reported Not reported Accuracy Value Unit: Not reported Source: Point Line Area: Not reported Desc Category: Not reported Method of Collection: Not reported Not reported District: Tank ID: 5-CO Capacity: 20000

Tank Status: Removed from Ground Substance: Other(#2 Heating Oill)

Not reported Install Date: 03/23/2016 Remove Date: Tank Number: UTK-138579-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Other Piping Material: Unknown Piping Type: Not reported Tank Construction: Other, Unknown

Direction Distance

Elevation Site Database(s) EPA ID Number

#### FLINT WATER PLANT AND FACILITIES (Continued)

1004533907

**EDR ID Number** 

Impressed Device: Not reported Latitude: Not reported Longitude: Not reported

Facility Type: CLOSED
Facility ID: 00037075
Facility Region: 2

Owner Name: CITY OF FLINT

Owner Address: 1101 S SAGINAW ST ROOM 203

Owner City: FLINT Owner State: MI Owner Zip: 48502 Not reported Owner Contact: Owner Phone: 8107667340 Contact: Not reported Contact Phone: Not reported Date of Collection: Not reported Accuracy: Not reported Horizontal Datum: Not reported Accuracy Value Unit: Not reported Source: Not reported Point Line Area: Not reported Desc Category: Not reported Method of Collection: Not reported District: Not reported Tank ID: 4-CO Capacity: 20000

Tank Status: Removed from Ground Substance: Other(#6 Heating Oil)

Install Date: Not reported 03/22/2016 Remove Date: Tank Number: UTK-138578-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Other Piping Material: Unknown Piping Type: Not reported Tank Construction: Other, Unknown Impressed Device: Not reported Latitude: Not reported Longitude: Not reported

Facility Type: CLOSED Facility ID: 00037075

Facility Region: 2

Owner Name: CITY OF FLINT

Owner Address: 1101 S SAGINAW ST ROOM 203

Owner City: FLINT Owner State: MI Owner Zip: 48502 Not reported Owner Contact: 8107667340 Owner Phone: Not reported Contact: Contact Phone: Not reported Date of Collection: Not reported Not reported Accuracy: Horizontal Datum: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

Removed from Ground

#### FLINT WATER PLANT AND FACILITIES (Continued)

1004533907

**EDR ID Number** 

Accuracy Value Unit: Not reported Not reported Source: Not reported Point Line Area: Desc Category: Not reported Method of Collection: Not reported District: Not reported 3-CO Tank ID: Capacity: 20000

Substance: Other(#6 Heating Oil) Install Date: Not reported 03/22/2016 Remove Date: UTK-138577-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Other Piping Material: Unknown Piping Type: Not reported Tank Construction: Other, Unknown Impressed Device: Not reported Not reported Latitude: Longitude: Not reported

Facility Type: CLOSED Facility ID: 00037075

Facility Region:

Tank Status:

Owner Name: CITY OF FLINT

Owner Address: 1101 S SAGINAW ST ROOM 203

Owner City: **FLINT** Owner State: MI 48502 Owner Zip: Owner Contact: Not reported Owner Phone: 8107667340 Contact: Not reported Not reported Contact Phone: Not reported Date of Collection: Not reported Accuracy: Horizontal Datum: Not reported Accuracy Value Unit: Not reported Source: Not reported Point Line Area: Not reported Desc Category: Not reported Method of Collection: Not reported Not reported District: Tank ID: 2-CO Capacity: 20000

Tank Status: Removed from Ground Substance: Other(#6 Heating Oil)

Install Date: Not reported 03/21/2016 Remove Date: UTK-138576-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Other Piping Material: Unknown Piping Type: Not reported Tank Construction: Other, Unknown

Direction Distance

Elevation Site Database(s) EPA ID Number

### FLINT WATER PLANT AND FACILITIES (Continued)

1004533907

**EDR ID Number** 

Impressed Device: Not reported Latitude: Not reported Longitude: Not reported

Facility Type: CLOSED
Facility ID: 00037075
Facility Region: 2

Owner Name: CITY OF FLINT

Owner Address: 1101 S SAGINAW ST ROOM 203

Owner City: FLINT Owner State: MI Owner Zip: 48502 Not reported Owner Contact: Owner Phone: 8107667340 Contact: **Derrick Jones** (810) 766-7340 Contact Phone: Date of Collection: 11/20/2014 Accuracy: 100 Horizontal Datum: NAD83

Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2

Capacity: 250

Tank Status: Removed from Ground

Substance: Gasoline Install Date: Not reported 01/19/2000 Remove Date: Tank Number: UTK-033177-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Not reported Pipe Release Detection: Piping Material: Unknown

Piping Type: Suction: No Valve at Tank

Tank Construction: Unknown
Impressed Device: Not reported
Latitude: 43.05407
Longitude: -83.67108

Facility Type: CLOSED Facility ID: 00037075

Facility Region: 2

Owner Name: CITY OF FLINT

Owner Address: 1101 S SAGINAW ST ROOM 203

Owner City: FLINT Owner State: MI Owner Zip: 48502 Not reported Owner Contact: Owner Phone: 8107667340 Derrick Jones Contact: Contact Phone: (810) 766-7340 Date of Collection: 11/20/2014 Accuracy: 100

Accuracy: 100 Horizontal Datum: NAD83

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

### FLINT WATER PLANT AND FACILITIES (Continued)

1004533907

**EDR ID Number** 

Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Lansing District Office District:

Tank ID: 20000 Capacity:

Tank Status: Removed from Ground

Substance: Diesel Install Date: Not reported 03/21/2016 Remove Date: UTK-066187-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Other

Piping Material: Galvanized Steel Piping Type: Suction: Valve at Tank

Tank Construction: Asphalt Coated or Bare Steel, Other

Impressed Device: Not reported Latitude: 43.05407 Longitude: -83.67108

FTTS INSP:

19900926MI020 2 Inspection Number:

Region: 05 Inspection Date: 09/26/90 Inspector: **SUUPPI** 

Violation occurred: No

Section 6 PCB State Conducted Investigation Type:

Investigation Reason: Neutral Scheme, State

Legislation Code: **TSCA** Facility Function: User

HIST FTTS INSP:

19900926MI020 2 Inspection Number:

Region: 05

Inspection Date: Not reported SUUPPI Inspector:

Violation occurred: No

Section 6 PCB State Conducted Investigation Type:

Neutral Scheme, State Investigation Reason:

Legislation Code: **TSCA** Facility Function: User

AIRS:

FLINT WATER TREATMENT, CITY OF Name:

Address: 4500 N DORT HIGHWAY

City, State, Zip: FLINT, MI 48505

State Registration Number: N0642 Naics Code: Not reported Contact Email: Not reported Contact Name: Not reported Contact Phone: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

### FLINT WATER PLANT AND FACILITIES (Continued)

1004533907

**EDR ID Number** 

Contact Address: (same as site address)

Contact City, St, Zip:

Permit Number:
627-83

Date Received:
10/11/1983

Application Reason: REPLACE EXISTING 125FT STACK W/ 50FT STACK

Record Type: Not reported State County FIPS: Not reported Not reported Facility Category: SIC Primary: Not reported Tribal Code: Not reported Facility Status Code: Not reported Active Facility Status: Supplemental Location Text: Not reported **Business Name:** Not reported Principal Product: Not reported Principal Product Description: Not reported

UTM Zone (Geo Coordinates Universal Transverse Mercator System): Not reported

**UTM Horizontal Coord:** Not reported **UTM Vertical Coord:** Not reported Mailing Name: Not reported Mailing Contact Person: Not reported Mailing Street: Not reported Mailing City: Not reported Mailing State: Not reported Not reported Mailing Zip: Mailing Zip 4 Extension: Not reported Compliance Person: Not reported Compliance Area Code: Not reported Compliance Phone Number: Not reported **Emission Inventory Contact Person:** Not reported El Contact Area Code: Not reported El Contact Phone Number: Not reported Permit Contact Person: Not reported Permit Contact Person Area Code: Not reported Permit Contact Person Phone Number: Not reported Not reported Federal Employer Id Number: Not reported # Of Employees: Reporting Year: Not reported Date Record Was Created: Not reported

WDS:

 Site Id:
 MIG000037315

 WMD Id:
 444576

 Site Specific Name:
 CITY OF FLINT

Mailing Address: 4500 N DORT HWY

Mailing City/State/Zip: 48505
Mailing County: GENESEE

Direction Distance

Elevation Site Database(s) EPA ID Number

Q86 ARMANUS HEAVY GEAR SHOP RCRA NonGen / NLR 1000529782

7347 N DORT HWY FINDS MID985622562

1/8-1/4 MOUNT MORRIS, MI 48458 ECHO

MOUNT MORRIS, MI 48458

0.239 mi.

**East** 

1261 ft. Site 2 of 2 in cluster Q
Actual: RCRA NonGen / NLR:

803 ft. Date form received by agency: 12/31/2002

Focus Map: Facility name: ARMANUS HEAVY GEAR SHOP

7 Facility address: 7347 N DORT HWY

EPA ID: MID985622562 Contact: NOLA ARMAN

Contact address: 7347 N DORT HWY

MOUNT MORRIS, MI 48458

Contact country: US

Contact telephone: 313-687-3510 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

Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2002

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:

Owner/operator country:

Owner/operator telephone:

Owner/operator email:

Not reported

Not reported

Not reported

Not reported

Owner/operator fax:
Owner/operator extension:
Legal status:
Owner/Operator Type:
Owner/Op start date:
Owner/Op end date:

Not reported
Not reported
Owner
Owner
Owner
Owner
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

**EDR ID Number** 

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **ARMANUS HEAVY GEAR SHOP (Continued)**

1000529782

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

**Historical Generators:** 

Date form received by agency: 09/13/1991

ARMANUS HEAVY GEAR SHOP Site name: Classification: Small Quantity Generator

Hazardous Waste Summary:

D001 Waste code:

Waste name: **IGNITABLE WASTE** 

Violation Status: No violations found

FINDS:

Registry ID: 110003663205

Environmental Interest/Information System

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.

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

ECHO:

Envid: 1000529782 Registry ID: 110003663205

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003663205

T87 **G-8010 NORTH DORT HIGHWAY** 

**G-8010 NORTH DORT HIGHWAY** East MT. MORRIS, MI

1/8-1/4 0.246 mi.

1297 ft. Site 1 of 2 in cluster T

Actual: BEA:

801 ft. Secondary Address: Not reported BEA Number: 1451 Focus Map: District: Lansing

Date Received: 12/04/2009 Submitter Name: D and K Real Estate, LLC

Petition Determination: No Request

Petition Disclosure:

Same Hazardous Substance(s) Category:

Determination 20107A: No Request

S110142499

N/A

MI BEA

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### G-8010 NORTH DORT HIGHWAY (Continued)

S110142499

Reviewer: innesj RRD Division Assigned:

T88 MT. MORRIS EXPRESS STOP (134) MI LUST U004123568 East

MI UST 8010 N DORT HWY N/A

1/4-1/2 **MOUNT MORRIS, MI 48458 MI INVENTORY** 0.256 mi. **MI Financial Assurance** 

1352 ft. Site 2 of 2 in cluster T MI WDS

LUST: Actual: 799 ft. Facility ID:

00002203 Source: STATE OF MICHIGAN Focus Map:

Owner Name: Corrigan Oil Co Owner Address: 3057 Davenport Ave Owner City, St, Zip: Saginaw, MI 48602 Owner Contact: Not reported

Owner Phone:

Country: USA District: Lansing

Sunshine Foods #121 Site Name:

Latitude: 43.12010 Longitude: -83.67596 Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

(989) 793-2181

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT** 

Plant Entrance (Freight) Desc Category:

Leak Number: C-0982-91 Release Date: 05/21/1991 Not reported Substance Released: Release Status: Closed Release Closed Date: 09/30/1996

UST:

**ACTIVE** Facility Type: Facility ID: 00002203

Facility Region: 2

Owner Name: **CORRIGAN OIL CO** Owner Address: 3057 DAVENPORT AVE

**SAGINAW** Owner City: Owner State: MI 48602 Owner Zip: Owner Contact: Not reported Owner Phone: 9897932181 Contact: Matthew L Shuler Contact Phone: (989) 793-2181 Date of Collection: 01/11/2001 Accuracy: 100 NAD83 Horizontal Datum: Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Lansing District Office District:

Direction Distance

Elevation Site Database(s) EPA ID Number

### MT. MORRIS EXPRESS STOP (134) (Continued)

U004123568

**EDR ID Number** 

Tank ID: 9
Capacity: 10000

Tank Status: Currently In Use

Substance: Diesel
Install Date: 03/29/2000
Remove Date: Not reported
Tank Number: UTK-090320-15
Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging, Groundwater Monitoring, Interstital Monitoring

Double Walled Tank/Piping, Inventory Control, Tank Tightness Testing

Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing, Other

Piping Material: Double Walled
Piping Type: Pressure (Remote)
Tank Construction: Double Walled,Other

Impressed Device: Not reported Latitude: 43.12010 Longitude: -83.67596

Facility Type: ACTIVE Facility ID: 00002203

Facility Region: 2

Owner Name: CORRIGAN OIL CO
Owner Address: 3057 DAVENPORT AVE

Owner City: **SAGINAW** Owner State: MI Owner Zip: 48602 Owner Contact: Not reported Owner Phone: 9897932181 Contact: Matthew L Shuler (989) 793-2181 Contact Phone: 01/11/2001 Date of Collection:

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 8
Capacity: 30000

Tank Status:

Substance:

Install Date:

Remove Date:

Tank Number:

Tank Details Compartments:

Currently In Use
Gasoline
03/29/2000

Not reported
UTK-014208-15
Not reported

Tank Release Detection: Automatic Tank Gauging,Inventory Control,Tank Tightness Testing
Pipe Release Detection: Automatic Line Leak Detectors,Line Tightness Testing,Other

Piping Material: Double Walled
Piping Type: Pressure (Remote)
Tank Construction: Double Walled,Other

Impressed Device: Not reported Latitude: 43.12010 Longitude: -83.67596

Facility Type: ACTIVE

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

### MT. MORRIS EXPRESS STOP (134) (Continued)

U004123568

**EDR ID Number** 

Facility ID: 00002203

Facility Region: 2

Owner Name: CORRIGAN OIL CO Owner Address: 3057 DAVENPORT AVE

Owner City: **SAGINAW** Owner State: MI 48602 Owner Zip: Owner Contact: Not reported Owner Phone: 9897932181 Contact: Not reported Contact Phone: Not reported Not reported Date of Collection: Accuracy: Not reported Horizontal Datum: Not reported Accuracy Value Unit: Not reported Source: Not reported Not reported Point Line Area: Desc Category: Not reported Method of Collection: Not reported District: Not reported

Tank ID:

Capacity: Not reported

Tank Status: Removed from Ground

Substance: Heating Oil Install Date: Not reported Remove Date: 08/29/1991 Tank Number: UTK-026372-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Other Piping Material: Bare Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel, Other

Impressed Device: Not reported Not reported Latitude: Longitude: Not reported

Facility Type: **ACTIVE** Facility ID: 00002203 Facility Region:

Owner Name: **CORRIGAN OIL CO** Owner Address: 3057 DAVENPORT AVE

Owner City: **SAGINAW** Owner State: MI Owner Zip: 48602 Owner Contact: Not reported Owner Phone: 9897932181 Contact: Matthew L Shuler Contact Phone: (989) 793-2181 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83

Accuracy Value Unit: Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**FEET** 

Direction Distance

Elevation Site Database(s) EPA ID Number

## MT. MORRIS EXPRESS STOP (134) (Continued)

U004123568

**EDR ID Number** 

District: Lansing District Office

Tank ID: 6 Capacity: 4000

Tank Status: Removed from Ground

Substance: Not reported Install Date: Not reported 08/29/1991 Remove Date: UTK-109520-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Not reported Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12010 Longitude: -83.67596

Facility Type: ACTIVE Facility ID: 00002203

Facility Region: 2

Owner Name: CORRIGAN OIL CO
Owner Address: 3057 DAVENPORT AVE

Owner City: **SAGINAW** Owner State: MI Owner Zip: 48602 Owner Contact: Not reported Owner Phone: 9897932181 Contact: Matthew L Shuler Contact Phone: (989) 793-2181 Date of Collection: 01/11/2001 Accuracy: 100

Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 5 Capacity: 500

Tank Status: Removed from Ground

Substance: Used Oil Not reported Install Date: 08/29/1991 Remove Date: UTK-109516-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Bare Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12010 Longitude: -83.67596

Facility Type: ACTIVE

Direction Distance

Elevation Site Database(s) EPA ID Number

#### MT. MORRIS EXPRESS STOP (134) (Continued)

Facility ID: 00002203

Facility Region: 2

Owner Name: CORRIGAN OIL CO
Owner Address: 3057 DAVENPORT AVE

Owner City: **SAGINAW** Owner State: MI 48602 Owner Zip: Owner Contact: Not reported Owner Phone: 9897932181 Contact: Matthew L Shuler Contact Phone: (989) 793-2181 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Accuracy Value Unit:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**FEET** 

District: Lansing District Office

Tank ID: 4 Capacity: 4000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 04/28/1966 Remove Date: 08/31/1991 Tank Number: UTK-109512-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12010 Longitude: -83.67596

Facility Type: ACTIVE
Facility ID: 00002203
Facility Region: 2

Owner Name: CORRIGAN OIL CO
Owner Address: 3057 DAVENPORT AVE

Owner City: **SAGINAW** Owner State: MI Owner Zip: 48602 Owner Contact: Not reported Owner Phone: 9897932181 Contact: Matthew L Shuler Contact Phone: (989) 793-2181 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**EDR ID Number** 

U004123568

Direction Distance

Elevation Site Database(s) EPA ID Number

### MT. MORRIS EXPRESS STOP (134) (Continued)

U004123568

**EDR ID Number** 

District: Lansing District Office

Tank ID: 3 Capacity: 4000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 04/28/1966 08/31/1991 Remove Date: UTK-109509-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Galvanized Steel Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12010 Longitude: -83.67596

Facility Type: ACTIVE Facility ID: 00002203

Facility Region: 2

Owner Name: CORRIGAN OIL CO
Owner Address: 3057 DAVENPORT AVE

Owner City: **SAGINAW** Owner State: MI Owner Zip: 48602 Owner Contact: Not reported Owner Phone: 9897932181 Contact: Matthew L Shuler Contact Phone: (989) 793-2181 Date of Collection: 01/11/2001 100

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 4000

Tank Status: Removed from Ground

Substance: Gasoline 04/28/1966 Install Date: 08/31/1991 Remove Date: UTK-040228-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12010 Longitude: -83.67596

Facility Type: ACTIVE

Direction Distance

Elevation Site Database(s) EPA ID Number

### MT. MORRIS EXPRESS STOP (134) (Continued)

U004123568

**EDR ID Number** 

Facility ID: 00002203

Facility Region: 2

Owner Name: CORRIGAN OIL CO
Owner Address: 3057 DAVENPORT AVE

Owner City: **SAGINAW** Owner State: MI 48602 Owner Zip: Owner Contact: Not reported Owner Phone: 9897932181 Contact: Matthew L Shuler Contact Phone: (989) 793-2181 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**FEET** 

District: Lansing District Office

Tank ID:

Accuracy Value Unit:

Capacity: 4000

Tank Status: Removed from Ground

Substance: Gasoline 04/28/1966 Install Date: Remove Date: 08/21/1991 Tank Number: UTK-043769-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12010 Longitude: -83.67596

INVENTORY:

Bea Number: Not reported Township: Not reported District: Lansing Data Source: Part 213 Latitude: 43.1201 Longitude: -83.67596

### FINANCIAL ASSURANCE 3:

Name: MT. MORRIS EXPRESS STOP (134)

Address: 8010 N DORT HWY

City, State, Zip: MOUNT MORRIS, MI 48458-1205

Facility ID: 00002203 Exempt: No

Expiration Date: 06/25/2019
Bond Rating Tests: Not reported
Commerical Insurance: Not reported
Guarantee: Not reported
Letter of Credit: Not reported

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

#### MT. MORRIS EXPRESS STOP (134) (Continued)

U004123568

Risk Retention Group:

Self Insurance:

State Funds:

Surety Bond:

Trust Funds:

Not reported

Not reported

Not reported

Not reported

Not reported

WDS:

Site Id: MID985609924 WMD Id: 404884

Site Specific Name: AMIRS MINI MART
Mailing Address: G8010 N DORT HWY

Mailing City/State/Zip: 48458
Mailing County: GENESEE

\_\_\_\_\_

89 MI DEPT/NATURAL RESOURCES AND ENVIRONMENT NE 5201 W BOULEVARD DR MI BROWNFIELDS \$107135932

MI PART 201 N/A MI INVENTORY

MINVENTORY

0.259 mi. 1367 ft.

1/4-1/2

Actual: BROWNFIELDS:

FLINT, MI 48506

722 ft.Facility ID:Not reportedFocus Map:Region:113Status:Not reported

Properry Use: Not reported

BEA: No

Ernie Id Number: 25000359

PART 201:

Facility ID: 25000359

Facility Status: Interim Response conducted - No further activities anticipated

Source: Refuse Systems
SAM Score: 30
SAM Score Date: 08/18/2006
Township: 8N
Range: 7E
Section: 29
Quarter: Not reported

Quarter: Not reported Quarter/Quarter: Not reported

Pollutants: As; Ethylbenzene; Xylenes

INVENTORY:

Bea Number: Not reported Township: Flint District: Lansing Data Source: Part 201 Latitude: 43.0606 Longitude: -83.66652

WDS:

Site Id: MIK254156284 WMD Id: 469544

Site Specific Name: WEST BLVD DRIVE SITE FLINT

Mailing Address: 525 W ALLEGAN ST

Mailing City/State/Zip: 48933
Mailing County: INGHAM

Direction Distance

Elevation Site Database(s) EPA ID Number

 U90
 BITUMINOUS PAVERS, INC
 MI LUST
 U003866596

 SSW
 4101 S DORT HWY
 MI UST
 N/A

SSW 4101 S DORT HWY 1/4-1/2 BURTON, MI 48529

0.276 mi.

1456 ft. Site 1 of 2 in cluster U

Actual: LUST: 726 ft. Facil

**726 ft.** Facility ID: 00005509 **Focus Map:** Source: STATE OF MICHIGAN

Owner Name: Bituminous Pavers Inc
Owner Address: PO Box 190177
Owner City,St,Zip: Burton, MI 48519-0177

Owner Contact: Not reported
Owner Phone: (313) 743-0090

Country: USA
District: Lansing

Site Name: Bituminous Pavers, Inc.

Latitude: 43.05395 Longitude: -83.67143 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-0346-90Release Date:03/02/1990Substance Released:Not reportedRelease Status:ClosedRelease Closed Date:10/09/1990

UST:

Facility Type: CLOSED Facility ID: 00005509

Facility Region: 2

Owner Name: BITUMINOUS PAVERS INC

Owner Address: PO BOX 190177
Owner City: BURTON
Owner State: MI
Owner Zip: 48519-0177
Owner Contact: Not reported
Owner Phone: 3137430090

Contact: RICHARD D. HANSON
Contact Phone: (313) 743-0090
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Accuracy Value Unit:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**FEET** 

District: Lansing District Office Tank ID: 1

Capacity: 10000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 05/07/1981

**EDR ID Number** 

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **BITUMINOUS PAVERS, INC (Continued)**

U003866596

U003102889

N/A

MI LUST

MI UST

MI INVENTORY MI WDS

Remove Date: 02/28/1990 UTK-060854-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Bare Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.05395 Longitude: -83.67143

FOUR M MFG GROUP OF CPC INC 91

1409 E PIERSON RD West 1/4-1/2 FLINT, MI 48505

0.277 mi. 1460 ft.

Actual: LUST: 751 ft.

Focus Map:

13

00012423 Facility ID: STATE OF MICHIGAN Source:

Owner Name: Four M Mfg Group Of Cpc Inc 1409 E Pierson Rd Owner Address:

Flint, MI 48505-3081 Owner City,St,Zip: Owner Contact: Not reported Owner Phone: (810) 787-6503

Country: USA District: Lansing

Consolidated Packaging Corp. Site Name:

Latitude: 43.06146 Longitude: -83.67612 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-0565-94 Release Date: 06/07/1994 Substance Released: Diesel Release Status: Closed Release Closed Date: 10/31/1994

UST:

CLOSED Facility Type: Facility ID: 00012423

Facility Region:

Owner Name: FOUR M MFG GROUP OF CPC INC

Owner Address: 1409 E PIERSON RD

**FLINT** Owner City: Owner State: MI Owner Zip:

48505-3081 Owner Contact: Not reported Owner Phone: 8107876503 Contact: DON UNBAN Contact Phone: (313) 787-6503

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

# FOUR M MFG GROUP OF CPC INC (Continued)

U003102889

**EDR ID Number** 

Date of Collection: 01/11/2001 100 Accuracy: Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

**POINT** Point Line Area:

Desc Category: Plant Entrance (Freight)

Address Matching-House Number Method of Collection:

District: Lansing District Office

Tank ID: 8000 Capacity:

Tank Status: Removed from Ground

Substance: Diesel Install Date: 02/04/1982 Remove Date: 05/02/1994 Tank Number: UTK-057246-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Galvanized Steel

Piping Type: Suction: No Valve at Tank Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.06146 Longitude: -83.67612

Facility Type: **CLOSED** Facility ID: 00012423 Facility Region:

FOUR M MFG GROUP OF CPC INC Owner Name:

1409 E PIERSON RD Owner Address: Owner City: **FLINT** 

Owner State: MI Owner Zip: 48505-3081 Not reported Owner Contact: Owner Phone: 8107876503 Contact: DON UNBAN Contact Phone: (313) 787-6503 Date of Collection: 01/11/2001 Accuracy: 100

Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

**POINT** Point Line Area:

Desc Category: Plant Entrance (Freight)

Address Matching-House Number Method of Collection:

District: Lansing District Office

Tank ID:

Capacity: 10000

Tank Status: Removed from Ground Other(FUEL OIL) Substance: Install Date: 02/05/1980 06/07/1994 Remove Date: Tank Number: UTK-057242-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### FOUR M MFG GROUP OF CPC INC (Continued)

U003102889

Piping Material: Galvanized Steel

Suction: No Valve at Tank Piping Type: Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.06146 Longitude: -83.67612

INVENTORY:

Bea Number: 201602172LA Township: Flint District: Lansing Data Source: BEA Latitude: Not reported

Longitude: Not reported

201702264LA Bea Number: Township: Flint

District: Lansing Data Source: **BEA** Latitude:

Not reported Not reported Longitude:

Bea Number: 201702265LA

Township: Flint District: Lansing Data Source: **BEA** Not reported Latitude: Longitude: Not reported

201702266LA Bea Number: Township: Flint Lansing District: Data Source: BEA Not reported Latitude: Not reported Longitude:

WDS:

MID005362801 Site Id: WMD Id: 393519

CONSOLIDATED PACKAGING CORP Site Specific Name:

Mailing Address: 1409 E PIERSON RD

Mailing City/State/Zip: 48505 Mailing County: **GENESEE** 

U92 **PRINCE SINGH LLC** MI LUST U000253210 MI UST SSW 4111 N DORT HWY N/A 1/4-1/2 FLINT, MI 48505 MI INVENTORY

0.286 mi. 1508 ft. Site 2 of 2 in cluster U

Actual: LUST:

723 ft. Facility ID: 00015951

Source: STATE OF MICHIGAN Focus Map: Owner Name: Prince Singh LLC 15

Owner Address: 4111 N Dort Hwy Owner City,St,Zip: Flint, MI 48505 Owner Contact: Not reported

**MI Financial Assurance** 

Direction Distance

Elevation Site Database(s) EPA ID Number

## PRINCE SINGH LLC (Continued)

U000253210

**EDR ID Number** 

Owner Phone: (810) 787-6510

Country: USA District: Lansing

Site Name: Citgo Petroleum Co.

Latitude: 43.05390 Longitude: -83.67135 Date of Collection: 01/12/1998

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0951-98
Release Date: 10/01/1998
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility Type: ACTIVE Facility ID: 00015951

Facility Region: 2

Owner Name: PRINCE SINGH LLC
Owner Address: 4111 N DORT HWY

Owner City: **FLINT** Owner State: MI Owner Zip: 48505 Owner Contact: Not reported Owner Phone: 8107876510 Balkar Singh Contact: Contact Phone: (810) 787-6510 Date of Collection: 01/12/1998 Accuracy: 10 Horizontal Datum: NAD83

Accuracy Value Unit: METERS

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

Tank ID: 4 Capacity: 6000

Tank Status: Currently In Use

Substance: Diesel
Install Date: 01/01/1998
Remove Date: Not reported
Tank Number: UTK-021407-15
Tank Details Compartments: Not reported

Tank Release Detection:

Automatic Tank Gauging
Pipe Release Detection:

Automatic Line Leak Detectors

Piping Material: Double Walled, Fiberglass Reinforced Plastic

Piping Type: Pressure (Remote)

Tank Construction: Cathodically Protected Steel

Impressed Device: Not reported Latitude: 43.05390 Longitude: -83.67135

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

## PRINCE SINGH LLC (Continued)

U000253210

**EDR ID Number** 

Facility Type: **ACTIVE** Facility ID: 00015951

Facility Region: 2

Owner Name: PRINCE SINGH LLC Owner Address: 4111 N DORT HWY

**FLINT** Owner City: Owner State: MI 48505 Owner Zip: Owner Contact: Not reported Owner Phone: 8107876510 Contact: Balkar Singh (810) 787-6510 Contact Phone: 01/12/1998 Date of Collection:

Accuracy: 10 Horizontal Datum: NAD83 Accuracy Value Unit: **METERS** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

GPS Code Meas. Standard Positioning Service SA Off Method of Collection:

District: Lansing District Office

Tank ID: 3 Capacity: 1000

Removed from Ground Tank Status:

Substance: Used Oil 03/06/1985 Install Date: Remove Date: 10/01/1998 Tank Number: UTK-077727-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Not reported Pipe Release Detection: Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported 43.05390 Latitude: -83.67135 Longitude:

**ACTIVE** Facility Type: Facility ID: 00015951

Facility Region: 2

Owner Name: PRINCE SINGH LLC Owner Address: 4111 N DORT HWY

**FLINT** Owner City: Owner State: MI 48505 Owner Zip: Owner Contact: Not reported 8107876510 Owner Phone: Contact: Balkar Singh Contact Phone: (810) 787-6510 Date of Collection: 01/12/1998 Accuracy: 10

NAD83 Horizontal Datum: Accuracy Value Unit: **METERS** 

Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Direction Distance

Elevation Site Database(s) EPA ID Number

## PRINCE SINGH LLC (Continued)

U000253210

**EDR ID Number** 

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

 Tank ID:
 2

 Capacity:
 12000

Tank Status:

Substance:
Install Date:

Remove Date:
Tank Number:

Tank Details Compartments:

Currently In Use
Gasoline
03/06/1985

Not reported
UTK-077721-15
Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Release Detection: Interstitial Monitoring Double Walled Piping Piping Material: Double Walled, Fiberglass Reinforced Plastic

Piping Type: Pressure (Remote)

Tank Construction: Cathodically Protected Steel

Impressed Device: Not reported Latitude: 43.05390 Longitude: -83.67135

Facility Type: ACTIVE Facility ID: 00015951

Facility Region: 2

Owner Name: PRINCE SINGH LLC
Owner Address: 4111 N DORT HWY

**FLINT** Owner City: Owner State: MI Owner Zip: 48505 Owner Contact: Not reported 8107876510 Owner Phone: Balkar Singh Contact: (810) 787-6510 Contact Phone: Date of Collection: 01/12/1998

Accuracy: 10
Horizontal Datum: NAD83
Accuracy Value Unit: METERS

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

Tank ID: 1 Capacity: 12000

Tank Status:

Substance:
Install Date:
Remove Date:
Tank Number:
UTK-027602-15
Tank Details Compartments:
Currently In Use
Gasoline
03/06/1985
Not reported
UTK-027602-15
Not reported

Tank Release Detection: Automatic Tank Gauging

Pipe Release Detection: Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled, Fiberglass Reinforced Plastic

Piping Type: Pressure (Remote)
Tank Construction: Cathodically Protected Steel

Impressed Device: Not reported Latitude: 43.05390 Longitude: -83.67135

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### PRINCE SINGH LLC (Continued)

U000253210

INVENTORY:

Bea Number: Not reported Not reported Township: Lansing District: Data Source: Part 213 43.0539 Latitude: -83.67136 Longitude:

FINANCIAL ASSURANCE 3:

PRINCE SINGH LLC Name: Address: 4111 N DORT HWY City,State,Zip: FLINT, MI 48505-3674

Facility ID: 00015951 Exempt: **Expiration Date:** 10/09/2017 Bond Rating Tests: Not reported Commerical Insurance: CHECKED Guarantee: Not reported Letter of Credit: Not reported Risk Retention Group: Not reported Self Insurance: Not reported State Funds: Not reported Surety Bond: Not reported Trust Funds: Not reported

7365 N. DORT HIGHWAY MI BEA \$105094915 N/A

7365 N. DORT HIGHWAY **ESE** 1/4-1/2 **GENESSEE TOWNSHIP, MI** 

0.287 mi. 1517 ft.

93

Actual: BEA:

799 ft. Secondary Address: Not reported BEA Number: 315 Focus Map: District: Lansing

Date Received: 12/14/1998 Linda C. Dolliver Submitter Name: Petition Determination: No Request

Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: temppm

Division Assigned: **Environmental Response Division** 

Secondary Address: Not reported BEA Number: 317 District: Lansing 12/14/1998 Date Received: Submitter Name: Erwin Evans Petition Determination: No Request

Petition Disclosure: 0

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer:

Division Assigned: **Environmental Response Division** 

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

94 **CSX TRANSPORTATION INC** MI LUST U003699352 SSW **4173 S DORT** MI UST N/A

1/4-1/2 **BURTON, MI 48529** 

0.293 mi. 1548 ft.

Actual: LUST: 721 ft. 00040271 Facility ID:

STATE OF MICHIGAN Focus Map: Source: Owner Name: **CSX Transportation Inc** 15 Owner Address: 500 Water Street J-275

Owner City, St, Zip: Jacksonville, FL 32202-4422

Owner Contact: Not reported (904) 359-3101 Owner Phone:

Country: USA District: Lansing

Site Name: Csx Transportation Inc

43.05354 Latitude: Lonaitude: -83.67083 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-0024-00 Release Date: 01/05/2000 Substance Released: Unknown Release Status: Closed Release Closed Date: 10/24/2000

UST:

Owner Zip:

Facility Type: CLOSED Facility ID: 00040271

Facility Region:

**CSX TRANSPORTATION INC** Owner Name: Owner Address: 500 WATER STREET J-275

32202-4422

Owner City: **JACKSONVILLE** 

Owner State: FL

Owner Contact: Not reported 9043593101 Owner Phone: Contact: PAUL J KURZANSKI Contact Phone: (904) 359-3101 Date of Collection: 01/11/2001 100 Accuracy:

Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source: **POINT** 

Point Line Area:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number Lansing District Office

District: Tank ID: 3 2000

Capacity: Removed from Ground Tank Status:

Substance: Gasoline Install Date: Not reported **EDR ID Number** 

MI WDS

Direction Distance Elevation

vation Site Database(s) EPA ID Number

# CSX TRANSPORTATION INC (Continued)

U003699352

**EDR ID Number** 

Remove Date: 12/06/1999
Tank Number: UTK-036940-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.05354 Longitude: -83.67083

Facility Type: CLOSED Facility ID: 00040271

Facility Region: 2

Owner Name: CSX TRANSPORTATION INC Owner Address: 500 WATER STREET J-275

Owner City: JACKSONVILLE

Owner State: FL

32202-4422 Owner Zip: Owner Contact: Not reported Owner Phone: 9043593101 Contact: PAUL J KURZANSKI Contact Phone: (904) 359-3101 Date of Collection: 01/11/2001 100 Accuracy: Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 2500

Tank Status: Removed from Ground

Substance: Gasoline Install Date: Not reported 12/06/1999 Remove Date: Tank Number: UTK-017726-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Bare Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported
Latitude: 43.05354
Longitude: -83.67083

Facility Type: CLOSED Facility ID: 00040271 Facility Region: 2

Owner Name: CSX TRANSPORTATION INC
Owner Address: 500 WATER STREET J-275

Owner City: JACKSONVILLE

Owner State: FL

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **CSX TRANSPORTATION INC (Continued)**

U003699352

Owner Zip: 32202-4422 Not reported Owner Contact: Owner Phone: 9043593101 Contact: PAUL J KURZANSKI Contact Phone: (904) 359-3101 01/11/2001 Date of Collection: Accuracy: 100 NAD83 Horizontal Datum:

Accuracy Value Unit: **FEET** Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Plant Entrance (Freight) Desc Category:

Address Matching-House Number Method of Collection:

District: Lansing District Office

Tank ID: Capacity: 2500

Tank Status: Removed from Ground

Substance: Diesel Install Date: Not reported 12/06/1999 Remove Date: Tank Number: UTK-101767-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Bare Steel Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported 43.05354 Latitude: -83.67083 Longitude:

WDS:

MIG000058455 Site Id:

WMD Id: 425274

Site Specific Name: **CSX TRANSPORTATION INC** 

Mailing Address: G4173 S DORT HWY

Mailing City/State/Zip: 48529 Mailing County: **GENESEE** 

Lansing

95 **CSX RAILROAD, CARPENTER** 

West **1420 CARPENTER RD** FLINT, MI 48505 1/4-1/2

0.303 mi. 1598 ft.

13

INVENTORY: Actual:

756 ft. Bea Number: Not reported Township: Flint Focus Map:

District:

Data Source: Part 201 Latitude: 43.07312 Longitude: -83.67634

TC5779007.5s Page 283

S114024283

N/A

MI INVENTORY

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

96 1357 THROUGH 1373 WEST COLDWATER ROAD MI INVENTORY S114022762
West 1357 THROUGH 1373 WEST COLDWATER ROAD N/A

1/4-1/2 GENESEE (County), MI

0.309 mi. 1631 ft.

Actual: INVENTORY:

**794 ft.** Bea Number: 200500889LA Focus Map: Township: Mt. Morris Township

10 District: Lansing
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

97 FLINT, CITY OF, WEBSTER ROAD LF MI INVENTORY S114024353
East WEBSTER ROAD N/A

East WEBSTER ROAD 1/4-1/2 FLINT, MI 48506

1/4-1/2 FLINT, MI 4850 0.329 mi.

0.329 mi. 1736 ft.

Actual: INVENTORY:

752 ft. Bea Number: Not reported Focus Map: Township: Flint District: Lansing

Data Source: Part 201
Latitude: 43.07125
Longitude: -83.66418

\_\_\_\_\_

98 AT&T - PINE RUN MICHIGAN MI LUST U000253534 ENE 1123 LEWIS RD MI UST N/A

1/4-1/2 CLIO, MI 48420 0.347 mi.

0.347 mi. 1832 ft.

**Actual:** LUST: **773 ft.** Facility ID: 00009714

Focus Map: Source: STATE OF MICHIGAN 2 Owner Name: AT&T Michigan 308 S Akard Ste 1700

Owner Address: 308 S Akard Ste 2
Owner City, St, Zip: Dallas, TX 75202
Owner Contact: Lisa Espinosa
Owner Phone: (877) 648-2073

Country: USA
District: Lansing

Site Name: At & T, 1123 Lewis
Latitude: 43.13735
Longitude: -83.67821
Date of Collection: 10/05/2004

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-1417-92 Release Date: 08/24/1992 Substance Released: Diesel MI WDS

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## AT&T - PINE RUN MICHIGAN (Continued)

U000253534

Release Status: Closed Release Closed Date: 03/24/1995

UST:

Facility Type: **CLOSED** Facility ID: 00009714

Facility Region:

Owner Name: AT&T MICHIGAN Owner Address: 308 S AKARD STE 1700

Owner City: **DALLAS** Owner State:  $\mathsf{TX}$ 75202 Owner Zip: Owner Contact: Not reported Owner Phone: 8776482073 ART LAMBERT Contact: Contact Phone: (616) 946-1145 Date of Collection: 10/05/2004 Accuracy: 100

Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Diesel

Lansing District Office District:

Tank ID: Capacity: 1000

Tank Status: Removed from Ground

Install Date: 03/18/1966 08/02/1992 Remove Date: Tank Number: UTK-024845-15 Not reported Tank Details Compartments: Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported Tank Construction: Unknown Impressed Device: Not reported 43.13735 Latitude: Longitude: -83.67821

WDS:

Substance:

MI0000917096 Site Id: WMD Id: 391525 Site Specific Name: AT&T

Mailing Address: 8798 E TRAVERSE HWY

Mailing City/State/Zip: 49684

Mailing County: **GRAND TRAVERSE** 

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

9 LOCKHART CHEMICAL COMPANY MI PART 201 S108232785

WSW 4302 JAMES P COLE BLVD MI INVENTORY N/A
1/4-1/2 FLINT, MI 48505 MI AIRS

0.352 mi. MI BEA
1856 ft. MI NPDES
MI WDS

Actual:

**750 ft.** PART 201:

Focus Map: Facility ID: 25000013

13 Facility Status: Interim Response in progress

Source: Petroleum Products

 SAM Score:
 34

 SAM Score Date:
 05/23/2005

 Township:
 08N

 Range:
 07E

 Section:
 31

 Quarter:
 NE

Quarter/Quarter: Not reported

Pollutants: 1,3-Dichloropropene; Sb; As; Benzene; Ni; PCB's; BEHP; Hg

INVENTORY:

Bea Number: Not reported Township: Flint Lansing Data Source: Part 201 Latitude: 43.06115 Longitude: -83.67484

AIRS:

Name: LOCKHART CHEMICAL COMPANY

Address: 4302 JAMES P COLE BLVD

City, State, Zip: FLINT, MI 48505

State Registration Number: B6179
Naics Code: 324191
Contact Email: Not reported
Contact Name: DAVID CRAIG
Contact Phone: 3137898330

Contact Address: 4701 THETFORD ROAD

Contact City, St, Zip: FLINT, MI 48505

Permit Number: 336-93 Date Received: 04/20/1993 Application Reason: **NEW EQUIPMENT** Record Type: Not reported State County FIPS: 26049 Facility Category: Not reported SIC Primary: Not reported Tribal Code: Not reported Facility Status Code: OP Facility Status: Active

Facility Status:

Supplemental Location Text:

Business Name:

Principal Product:

Principal Product Description:

Not reported

Not reported

Not reported

UTM Zone (Geo Coordinates Universal Transverse Mercator System): Not reported

UTM Horizontal Coord:
UTM Vertical Coord:
Mailing Name:
Mailing Contact Person:
Not reported
Not reported
Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## LOCKHART CHEMICAL COMPANY (Continued)

S108232785

**EDR ID Number** 

Mailing Street: Not reported Not reported Mailing City: Mailing State: Not reported Mailing Zip: Not reported Mailing Zip 4 Extension: Not reported Compliance Person: Not reported Compliance Area Code: Not reported Compliance Phone Number: Not reported Emission Inventory Contact Person: Not reported El Contact Area Code: Not reported El Contact Phone Number: Not reported Permit Contact Person: Not reported Permit Contact Person Area Code: Not reported Permit Contact Person Phone Number: Not reported Federal Employer Id Number: Not reported # Of Employees: Not reported Reporting Year: Not reported Date Record Was Created: Not reported

### BEA:

Secondary Address: Not reported BEA Number: 1405
District: Lansing Date Received: 05/28/2009

Submitter Name: Additives International, LLC

Petition Determination: No Request

Petition Disclosure: 0

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: innesj Division Assigned: RRD

### MI NPDES:

Permit Number: MIS510265

Permitee PO Box:

Permitee Email: rminhas@lockhartchem.com

 Issue Date:
 04/14/2015

 Effective Date:
 04/14/2015

 Expiration Date:
 04/01/2020

Permittee Name: Lockhart Chemical Company
Permittee Address: 4302 James P. Cole Boulevard

Permittee Addr2: Not reported
Permittee City,St,Zip: Flint, MI 48505

Permit Type: NPDES Certificate of Coverage under General Permit (COC)

Facility Name 2: Not reported Facility Name 3: Not reported Facility Name 4: Not reported

Designed Name: Lockhart Chem Co-Flint

Latitude: 43.0589

Lat Direction: N

Lat Type Code: LAT

Longitude: -83.6764

Lon Direction: W

Lon Type Code: LON

Hydrologic Unit Code: 4080204

Permit Status: In Effect

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

## LOCKHART CHEMICAL COMPANY (Continued)

S108232785

COC Permit Category: SW-Industrial CY5
DEQ District Email: Lansing
DEQ Permit Compliance Manager: Brian Zuber

DEQ Permit Compliance Manager Email: zuberb@michigan.gov

WDS:

Site Id: MID033674730

WMD Id: 395336

Site Specific Name: LOCKHART CHEMICAL CO
Mailing Address: 4302 JAMES P COLE BLVD

Mailing City/State/Zip: 48505 Mailing County: GENESEE

Site Id: MIK988335550

WMD Id: 486002

Site Specific Name: ADDITIVES INTERNATIONAL FLINT PLANT

Mailing Address: 4302 JAMES P COLE BLVD

Mailing City/State/Zip: 48505
Mailing County: GENESEE

100 POWERS CATHOLIC HIGH SCHOOL

MI LUST U000253427

MI UST N/A

East 2040 W CARPENTER RD 1/4-1/2 FLINT, MI 48505

0.360 mi. 1903 ft.

Actual: LUST:

**747 ft.** Facility ID: 00033109

Focus Map: 10

Source: STATE OF MICHIGAN
Owner Name: Powers Catholic High School
Owner Address: G-2040 W Carpenter Rd
Owner City, St, Zip: Flint, MI 48505-1028

Owner Contact: Not reported
Owner Phone: 313-7854747
Country: USA
District: Lansing

Site Name: Powers Catholic High School

Latitude: 43.07601 Longitude: -83.66355 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-1222-01
Release Date: 08/28/2001
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: 12/04/2001

UST:

Facility Type: CLOSED Facility ID: 00033109

Facility Region: 2

Owner Name: POWERS CATHOLIC HIGH SCHOOL

Direction Distance

Elevation Site Database(s) EPA ID Number

### POWERS CATHOLIC HIGH SCHOOL (Continued)

Owner Address: 2040 W CARPENTER RD

Owner City: **FLINT** Owner State: MI Owner Zip: 48505-1028 Owner Contact: Not reported Owner Phone: 3137854747 Ms Gloria Holbin Contact: Contact Phone: 810-591-4747 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Accuracy Value Unit:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**FEET** 

District: Lansing District Office

Tank ID: 2 Capacity: 2000

Tank Status: Removed from Ground

Substance: Not reported Not reported Install Date: Remove Date: 08/24/1989 Tank Number: UTK-001620-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported Tank Construction: Unknown Impressed Device: Not reported Latitude: 43.07601 Longitude: -83.66355

Facility Type: CLOSED Facility ID: 00033109

Facility Region: 2

Owner Name: POWERS CATHOLIC HIGH SCHOOL

Owner Address: 2040 W CARPENTER RD

 Owner City:
 FLINT

 Owner State:
 MI

 Owner Zip:
 48505-1028

Owner Contact: Not reported 3137854747 Owner Phone: Contact: Ms Gloria Holbin 810-591-4747 Contact Phone: Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 1
Capacity: 2000

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**EDR ID Number** 

U000253427

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

### POWERS CATHOLIC HIGH SCHOOL (Continued)

U000253427

**EDR ID Number** 

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 07/13/1989 Remove Date: 08/13/2001 Tank Number: UTK-089136-15 Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging Pipe Release Detection: Automatic Line Leak Detectors

Piping Material: Cathodically Protected, Galvanized Steel

Piping Type: Suction: Valve at Tank

Tank Construction: Asphalt Coated or Bare Steel, Cathodically Protected Steel

Impressed Device: Yes 43.07601 Latitude: Longitude: -83.66355

V101 **KIMES CORP** U000253256 MI LUST **4701 THETFORD RD WSW** MI UST N/A FLINT, MI 48505 **MI INVENTORY** 1/4-1/2

0.364 mi.

1924 ft. Site 1 of 2 in cluster V

Actual: LUST:

758 ft. Facility ID: 00017324

STATE OF MICHIGAN Focus Map: Source: Owner Name: Kimes Corp

Owner Address: 4701 Thetford Rd Owner City, St, Zip: Flint, MI 48505-3669 Owner Contact: Not reported Owner Phone: (734) 789-8330

Country: USA District: Lansing

Kimes Corp., Thetford Road Plant Site Name:

43.05956 Latitude: Longitude: -83.67536 Date of Collection: 01/11/2001

Address Matching-House Number Method of Collection:

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Leak Number: C-0157-85 Release Date: 09/23/1986 Substance Released: Not reported Release Status: Open Not reported Release Closed Date:

UST:

Facility Type: **CLOSED** Facility ID: 00017324 Facility Region:

Owner Name: KIMES CORP 4701 THETFORD RD Owner Address:

Owner City: **FLINT** Owner State: MI 48505-3669 Owner Zip: Owner Contact: Not reported

Direction Distance Elevation

ion Site Database(s) EPA ID Number

KIMES CORP (Continued) U000253256

Owner Phone: 7347898330 Not reported Contact: Not reported Contact Phone: Date of Collection: Not reported Accuracy: Not reported Not reported Horizontal Datum: Not reported Accuracy Value Unit: Source: Not reported Point Line Area: Not reported Desc Category: Not reported Method of Collection: Not reported District: Not reported Tank ID: FUELTK2 Capacity: Not reported

Tank Status: Removed from Ground

Substance: Gasoline,Other(1/2 FULL OF GRAVEL &)

Install Date: Not reported 08/30/1990 Remove Date: Tank Number: UTK-066009-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported Tank Construction: Unknown Impressed Device: Not reported Latitude: Not reported Longitude: Not reported

Facility Type: CLOSED
Facility ID: 00017324
Facility Region: 2

Owner Name: KIMES CORP

Owner Address: 4701 THETFORD RD

Owner City: FLINT
Owner State: MI

48505-3669 Owner Zip: Owner Contact: Not reported 7347898330 Owner Phone: Contact: Not reported Not reported Contact Phone: Not reported Date of Collection: Accuracy: Not reported Not reported Horizontal Datum: Not reported Accuracy Value Unit: Source: Not reported Point Line Area: Not reported Desc Category: Not reported Method of Collection: Not reported District: Not reported Tank ID: FUELTK1 Capacity: Not reported

Tank Status: Removed from Ground

Substance: Gasoline,Other(1/2 FULL OF GRAVEL &)

Install Date: Not reported
Remove Date: 08/30/1990
Tank Number: UTK-066005-15

**EDR ID Number** 

Direction Distance Elevation

on Site Database(s) EPA ID Number

KIMES CORP (Continued) U000253256

Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported Tank Construction: Unknown Impressed Device: Not reported Latitude: Not reported Longitude: Not reported

Facility Type: CLOSED
Facility ID: 00017324

Facility Region: 2

Owner Name: KIMES CORP
Owner Address: 4701 THETFORD RD

Owner City: FLINT Owner State: MI

48505-3669 Owner Zip: Owner Contact: Not reported 7347898330 Owner Phone: Contact: JOSEPH ELDICK Contact Phone: (734) 789-8330 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 958 Capacity: 12000

Tank Status: Removed from Ground Substance: Other(TENNCOUNT)

Install Date: 05/05/1978
Remove Date: 08/30/1990
Tank Number: UTK-005184-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported

Piping Material: Fiberglass Reinforced Plastic

Piping Type: Not reported

Tank Construction: Fiberglass Reinforced Plastic

Impressed Device: Not reported Latitude: 43.05956 Longitude: -83.67536

Facility Type: CLOSED
Facility ID: 00017324

Facility Region: 2

Owner Name: KIMES CORP
Owner Address: 4701 THETFORD RD

Owner City: FLINT Owner State: MI

Owner Zip: 48505-3669
Owner Contact: Not reported

**EDR ID Number** 

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

KIMES CORP (Continued) U000253256

Owner Phone: 7347898330 JOSEPH ELDICK Contact: (734) 789-8330 Contact Phone: Date of Collection: 01/11/2001 Accuracy: 100 NAD83 Horizontal Datum:

Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 108 Capacity: 12000

Removed from Ground Tank Status:

Substance: Used Oil Install Date: 05/05/1978 08/30/1990 Remove Date: Tank Number: UTK-048487-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported

Piping Material: Fiberglass Reinforced Plastic

Piping Type: Not reported

Tank Construction: Fiberglass Reinforced Plastic

Impressed Device: Not reported 43.05956 Latitude: Longitude: -83.67536

INVENTORY:

Bea Number: Not reported Township: Not reported District: Lansing Part 213 Data Source: Latitude: 43.05957 Longitude: -83.67537

V102 **ESTECH OIL CO** SEMS-ARCHIVE 1000200832 wsw **4701 THETFORD ST** RCRA NonGen / NLR MID098675937

1/4-1/2 FLINT, MI 48505

0.364 mi.

1924 ft. Site 2 of 2 in cluster V

Actual: SEMS Archive:

758 ft. Site ID: 0502696 MID098675937 EPA ID: Focus Map: 13 Cong District: 07

FIPS Code: 26049 FF:

NPL: Not on the NPL

Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 05 Site ID: 0502696 EPA ID: MID098675937

Site Name: **ESTECH OIL COMPANY** 

NPL:

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **ESTECH OIL CO (Continued)**

SEQ:

1000200832

FF: Ν OU: 00 Action Code: VS Action Name: **ARCH SITE** 

Start Date: Not reported Finish Date: 1987-12-22 05:00:00 Qual: Not reported Current Action Lead: EPA Perf In-Hse

Region: 05 Site ID: 0502696 MID098675937 EPA ID:

Site Name: **ESTECH OIL COMPANY** 

NPL: FF: Ν OU: 00 Action Code: DS **DISCVRY** Action Name:

SEQ:

Start Date: 1981-06-01 04:00:00 Finish Date: 1981-06-01 04:00:00 Qual: Not reported **Current Action Lead: EPA Perf** 

Region: 05 Site ID: 0502696 EPA ID: MID098675937

**ESTECH OIL COMPANY** Site Name:

NPL: Ν FF: N OU: 00 Action Code: PΑ Action Name: PΑ SEQ:

Start Date: Not reported Finish Date: 1987-12-22 05:00:00

Qual: **Current Action Lead:** St Perf

### RCRA NonGen / NLR:

Date form received by agency: 08/18/1980 Facility name: ESTECH OIL CO Facility address: 4701 THETFORD ST

FLINT, MI 48505 MID098675937

EPA ID: JOHN HOLLEMBEAK Contact: Contact address: 4701 THETFORD ST FLINT, MI 48505

Contact country: US

Contact telephone: 313-785-8311 Contact email: Not reported

EPA Region: 05

Classification: Non-Generator

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

Distance Elevation Site

Site Database(s) EPA ID Number

### ESTECH OIL CO (Continued)

1000200832

**EDR ID Number** 

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 Not reported Owner/operator telephone: Not reported Owner/operator email: Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Operator Owner/Operator Type: 01/03/1970 Owner/Op start date: 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 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 01/03/1970 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

## Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

Direction Distance

Elevation Site Database(s) EPA ID Number

 103
 UNIVERSAL SYSTEMS
 MI LUST
 U003081893

 WSW
 1401 E STEWART AVE
 MI UST
 N/A

1/4-1/2 0.370 mi. 1951 ft.

Actual: LUST:

**750 ft.** Facility ID: 00007289

FLINT, MI 48505

Focus Map: 15

Source: STATE OF MICHIGAN
Owner Name: Universal Systems
Owner Address: 1401 E Stewart Ave
Owner City,St,Zip: Flint, MI 48505-3616
Owner Contact: Not reported

Owner Phone: 810-785-7970
Country: USA
District: Lansing

Site Name: Universal Systems

Latitude: 43.05421 Longitude: -83.67647 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-0160-03Release Date:04/21/2003Substance Released:GasolineRelease Status:ClosedRelease Closed Date:06/02/2003

UST:

Facility Type: CLOSED Facility ID: 00007289

Facility Region: 2

Owner Name: UNIVERSAL SYSTEMS
Owner Address: 1401 E STEWART AVE

Owner City: **FLINT** Owner State: MI 48505-3616 Owner Zip: Owner Contact: Not reported 8107857970 Owner Phone: Contact: **Todd Dennis** Contact Phone: 810-785-7970 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 1 Capacity: 3000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 03/11/1981 **EDR ID Number** 

MI WDS

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**UNIVERSAL SYSTEMS (Continued)** 

U003081893

Remove Date: 03/31/2003 UTK-075619-15 Tank Number: Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging Pipe Release Detection: Automatic Line Leak Detectors

Piping Material: Bare Steel

Piping Type: Suction: No Valve at Tank

Tank Construction: Asphalt Coated or Bare Steel, Cathodically Protected Steel

Impressed Device: Not reported Latitude: 43.05421 Longitude: -83.67647

WDS:

Site Id: MIK514418854 WMD Id: 475279

Site Specific Name: **UNIVERSAL SYSTEMS** Mailing Address: 1401 E STEWART AVE

Mailing City/State/Zip: 48505 Mailing County: **GENESEE** 

104 **REALM COLDWATER RD. LANDFILL**  MI AUL S113406644

REALM COLDWATER RD. LANDFILL

N/A

wsw **6220 HORTON STREET** 

1/4-1/2 **GENESSEE TOWNSHIP, MI 48458** 

0.387 mi. 2044 ft.

Actual: AUL: 805 ft. Name:

Address: 6220 HORTON STREET Focus Map: 10

City, State, Zip: GENESSEE TOWNSHIP, MI 48458

Status: Recorded Site Name: Not reported

REALM Coldwater Rd. Landfill Property:

Land Use Restriction Type: RC Part 111 Program Type: Program Support Assigned User: Nicholas Swartz Program Support Assigned Date: 10/19/2009 Legal Description Of Property: Migrated Based On The Deq Ref #: 11311105002

MDEQ Reference Number: RC-WHMD-111-05-002

Property Or Description Restricted Area: Migrated WMD Lead Division:

File Name Of Hyperlinked Legal Doc: U:\\Kermit\\11311105002.pdf Mapped Polygons Area In Acres: 118.52200000000001

Mapped Polygons Area In Square Miles: 0.1852 Date Data Entry Started: 10/19/2009 Date Data Entry Finished: 10/19/2009 Nicholas Swartz Individual Or Staff Assoc With The Mapping:

Program Used To Map Restricted Features: ArcInfo 9.3 and IcoMap 4.2

Date Legal Paperwork Stamped/Filed/Register Of Deeds: 06/24/2005

Commercial I Land Use Restriction: 0 Commercial li Land Use Restriction: 0 Commercial lii Land Use Restriction: 0 Commercial Iv Land Use Restriction: 0 Industrial Land Use Restriction: 0 Residential Land Use Restriction: 0 Recreational Land Use Restriction: 0

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**REALM COLDWATER RD. LANDFILL (Continued)** 

S113406644

1001124136

MIR000020743

CORRACTS

**RCRA-TSDF** 

**RCRA NonGen / NLR** 

2020 COR ACTION

Multiple Land-Use Restrictions: 0 0 Site Specific Restrictions: **Groundwater Consumption Restrictions:** 1 Groundwater Contact Restrictions: 0 Special Well Construction Requirements: 0 Special Building Restrictions: 0 **Excavation And Soil Movement Restrictions:** Soil Movement Requirements: There Is A Restriction On All Construction: 0 Monitoring Well Protected, No Tampering Or Removal: There Is An Exposure Barrier In Place: 1 There Is A Health And Safety Plan: 0

Comment: Request received on 8/14/2005 EPA MID No. 005 356 860; WDS No. 39343;

**David Slayton** 

Map Comments: Restriction in Kermit has not been mapped as of 12/21/2007. LUR is

mapped in KERMIT as of 20091019 - Nick Swartz

W105 REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPON

There Is A Permanent Marker On The Site:

West 1245 E COLDWATER RD

1/4-1/2 **FLINT, MI 48505** 

0.412 mi.

2174 ft. Site 1 of 3 in cluster W

Actual: CORRACTS: 804 ft. EPA ID:

MIR000020743 EPA Region:

Focus Map: Area Name: **ENTIRE FACILITY** 

> Actual Date: 20180927 CA800YE Action:

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Not reported Schedule end date:

EPA ID: MIR000020743

EPA Region:

**ENTIRE FACILITY** Area Name: 20180918 Actual Date: CA900CR Action:

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

**ENTIRE FACILITY** Area Name: Actual Date: 20180307

CA772ID Action: NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region:

Area Name: **ENTIRE FACILITY** 

Direction Distance

Elevation Site Database(s) EPA ID Number

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Actual Date: 20171115 Action: CA001 NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

 Actual Date:
 20170926

 Action:
 CA550RC

 NAICS Code(s):
 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: GROUNDWATER
Actual Date: 20161025
Action: CA001

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

 Actual Date:
 20161025

 Action:
 CA001

 NAICS Code(s):
 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: GROUNDWATER
Actual Date: 20151021

Action: CA001 NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

 Actual Date:
 20151021

 Action:
 CA001

 NAICS Code(s):
 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

EPA ID: MIR000020743

EPA Region: 05

Area Name: GROUNDWATER

Actual Date: 20150423

Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes,

Migration of Contaminated Groundwater Under Control has been verified

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 20150423

Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes,

Migration of Contaminated Groundwater Under Control has been verified

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

 Actual Date:
 20141023

 Action:
 CA001

 NAICS Code(s):
 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

 Area Name:
 GROUNDWATER

 Actual Date:
 20141023

 Action:
 CA001

 NAICS Code(s):
 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: GROUNDWATER

Actual Date: 20140321

Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human

Exposures Under Control has been verified

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 20140321

Direction Distance

Elevation Site Database(s) EPA ID Number

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human

Exposures Under Control has been verified

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 20140321
Action: CA001
NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: GROUNDWATER

 Actual Date:
 20140321

 Action:
 CA001

 NAICS Code(s):
 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

 Actual Date:
 20130201

 Action:
 CA001

 NAICS Code(s):
 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

 Actual Date:
 20121121

 Action:
 CA001

 NAICS Code(s):
 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

 Actual Date:
 20120111

 Action:
 CA001

 NAICS Code(s):
 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

MIR000020743 EPA ID:

EPA Region: 05

**GROUNDWATER** Area Name:

Actual Date: 20090501

Action: CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

MIR000020743 EPA ID:

EPA Region: 05

**ENTIRE FACILITY** Area Name:

Actual Date: 20010427

Action: CA160 - RFI Supplemental Information Received

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743 EPA Region: 05

Area Name: **GROUNDWATER** 

Actual Date: 20010427

Action: CA160 - RFI Supplemental Information Received

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region:

Area Name: **ENTIRE FACILITY** 

Actual Date: 20010329 CA196 Action: NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: **GROUNDWATER** Actual Date: 20010329 CA196 Action:

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

MIR000020743 EPA ID:

EPA Region:

**GROUNDWATER** Area Name: Actual Date: 20001130

Action: CA190 - RFI Report Received

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Direction Distance

Elevation Site Database(s) EPA ID Number

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 20001130

Action: CA190 - RFI Report Received

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: GROUNDWATER

Actual Date: 20000516

Action: CA110 - RFI Workplan Received

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 20000516

Action: CA110 - RFI Workplan Received

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: GROUNDWATER
Actual Date: 20000331

Action: CA110 - RFI Workplan Received

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 20000331

Action: CA110 - RFI Workplan Received

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

Area Name: GROUNDWATER
Actual Date: 19980916

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

Action: CA075LO - CA Prioritization, Facility or area was assigned a low

corrective action priority

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MIR000020743

EPA Region: 05

GROUNDWATER Area Name: Actual Date: 19980916

CA100DC - RFI Imposition, Focused data collection required for Action:

stabilization evaluation

NAICS Code(s): 52592

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

RCRA-TSDF:

Date form received by agency: 06/29/2011

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST Facility name:

Facility address: 1245 E COLDWATER RD

FLINT, MI 48505

EPA ID: MIR000020743 2930 ECORSE RD Mailing address:

YPSILANTI, MI 48197

GRANT TRIGGER Contact: Contact address: Not reported

Not reported

Contact country: US

Contact telephone: 313-486-2908

Contact email: GTRIGGER@RACERTRUST.ORG

EPA Region: 05 Land type: Private Classification: **TSDF** 

Description: Handler is engaged in the treatment, storage or disposal of hazardous

waste

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

Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 04/01/2011 Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported

Direction Distance Elevation

on Site Database(s) EPA ID Number

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Not reported Owner/operator country: Not reported Not reported Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 04/01/2011 Owner/Op end date: Not reported

Owner/operator name: REVITALIZING AUTO COMMUNITIES ENV RESPON

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Not reported Owner/operator email: Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 03/31/2011 Owner/Op end date: Not reported

Owner/operator name: RACER PROPERTIES LLC

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Not reported Owner/operator email: Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 05/02/2011 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

### **Historical Generators:**

Date form received by agency: 03/31/2006

Direction Distance

Elevation Site Database(s) EPA ID Number

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Not a generator, verified

Date form received by agency: 03/01/2006

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO

Classification: Not a generator, verified

Date form received by agency: 03/01/2004

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO

Classification: Not a generator, verified

Date form received by agency: 12/31/2002

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Not a generator, verified

Date form received by agency: 04/29/2001

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Large Quantity Generator

Date form received by agency: 04/18/2001

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Large Quantity Generator

Date form received by agency: 09/29/2000

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Large Quantity Generator

Date form received by agency: 12/26/1996

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Large Quantity Generator

Date form received by agency: 01/01/1980

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Corrective Action Summary:

Event date: 09/16/1998

Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 09/16/1998

Event: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL

Event date: 03/31/2000

Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 05/16/2000

Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 11/30/2000

Event: INVESTIGATION REPORT RECEIVED

**EDR ID Number** 

1001124136

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

Event date: 03/29/2001

-MISSING EVENT NAME-Event:

Event date: 04/27/2001

Event: INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED

05/01/2009 Event date:

DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT Event:

**NECESSARY** 

Event date: 01/11/2012

Event: ORDER APPEALED

Event date: 11/21/2012

Event: ORDER APPEALED

Event date: 02/01/2013

Event: ORDER APPEALED

Event date: 03/21/2014

Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS

DATE

Event date: 03/21/2014

Event: ORDER APPEALED

Event date: 10/23/2014

Event: ORDER APPEALED

Event date: 04/23/2015

RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE Event:

Event date: 10/21/2015

ORDER APPEALED Event:

Event date: 10/25/2016

ORDER APPEALED Event:

Event date: 09/26/2017

Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 11/15/2017

Event: ORDER APPEALED

Event date: 03/07/2018

Event: INSTITUTIONAL CONTROLS ESTABLISHED-INFORMATIONAL DEVICE

Event date:

Event: CA PERFORMANCE STANDARDS ATTAINED - CONTROLS REQUIRED

Event date: 09/27/2018

Event: READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 04/23/2004

Direction Distance

Elevation Site Database(s) EPA ID Number

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Date achieved compliance: 11/05/2004 Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 05/11/2004
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 - Records/Reporting

Date violation determined: 04/23/2004
Date achieved compliance: 11/05/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 05/11/2004
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 - Corrective Action for SWMUs

Date violation determined: 03/01/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 03/01/2004
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 - Records/Reporting

Date violation determined: 04/28/1998
Date achieved compliance: 08/10/1998
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/28/1998
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 - Pre-transport

Date violation determined: 04/28/1998 Date achieved compliance: 08/10/1998

Direction Distance

Elevation Site Database(s) EPA ID Number

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/28/1998
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: 04/28/1998
Date achieved compliance: 08/10/1998
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/28/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

Proposed penalty amount: Not reported Not reported Paid penalty amount: Not reported Not reported Not reported

**Evaluation Action Summary:** 

Evaluation date: 11/29/2017

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/03/2017

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
State

Evaluation date: 08/25/2016

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 07/14/2016

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 12/10/2015

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 08/06/2015

Evaluation: NON-FINANCIAL RECORD REVIEW

Direction Distance

Elevation Site Database(s) EPA ID Number

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 06/30/2015

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/14/2014

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/04/2013

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/13/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/10/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 03/30/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 01/10/2011

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 04/23/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 11/05/2004 Evaluation lead agency: State

Evaluation date: 04/23/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Records/Reporting

Date achieved compliance: 11/05/2004 Evaluation lead agency: State

Direction Distance

Elevation Site **EPA ID Number** Database(s)

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Evaluation date: 03/01/2004

CORRECTIVE ACTION COMPLIANCE EVALUATION Evaluation:

TSD - Corrective Action for SWMUs Area of violation:

Date achieved compliance: 07/16/2004 Evaluation lead agency: State

Evaluation date: 04/25/2003

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 07/05/2001

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 02/13/2001

CORRECTIVE ACTION COMPLIANCE EVALUATION Evaluation:

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

01/25/2001 Evaluation date:

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

06/01/2000 Evaluation date:

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 08/20/1999

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 07/07/1998

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: FOCUSED COMPLIANCE INSPECTION Evaluation:

Area of violation: Generators - Pre-transport

Date achieved compliance: 08/10/1998 Evaluation lead agency: State

Evaluation date: 03/27/1998

FOCUSED COMPLIANCE INSPECTION Evaluation:

03/27/1998

Area of violation: Generators - General

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

Date achieved compliance: 08/10/1998 Evaluation lead agency: State

Evaluation date: 03/27/1998

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Generators - Records/Reporting

Date achieved compliance: 08/10/1998 Evaluation lead agency: State

RCRA NonGen / NLR:

Contact address:

Date form received by agency: 06/29/2011

Facility name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Facility address: 1245 E COLDWATER RD

FLINT, MI 48505 EPA ID: MIR000020743 2930 ECORSE RD Mailing address: YPSILANTI, MI 48197 GRANT TRIGGER Contact:

> Not reported Not reported

Contact country: US

Contact telephone: 313-486-2908

Contact email: GTRIGGER@RACERTRUST.ORG

EPA Region: 05 Land type: Private Classification: **TSDF** 

Description: Handler is engaged in the treatment, storage or disposal of hazardous

waste

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

Not reported Owner/operator country: Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Not reported Owner/operator extension: Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 04/01/2011 Owner/Op end date: Not reported

NO ACTIVE O/OP AS NOT GENERATING WASTE Owner/operator name:

Owner/operator address: Not reported Not reported Owner/operator country: Not reported Not reported Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported

Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 04/01/2011 Owner/Op end date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Owner/operator name: REVITALIZING AUTO COMMUNITIES ENV RESPON

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 03/31/2011 Owner/Op end date: Not reported

Owner/operator name: RACER PROPERTIES LLC

Owner/operator address: Not reported

Not reported

Not reported Owner/operator country: Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 05/02/2011 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

## Historical Generators:

Date form received by agency: 03/31/2006

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Not a generator, verified

Date form received by agency: 03/01/2006

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO

Classification: Not a generator, verified

Date form received by agency: 03/01/2004

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO

Classification: Not a generator, verified

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

Date form received by agency: 12/31/2002

REMEDIATION AND LIABILITY MANAGEMENT CO INC Site name:

Classification: Not a generator, verified

Date form received by agency: 04/29/2001

REMEDIATION AND LIABILITY MANAGEMENT CO INC Site name:

Classification: Large Quantity Generator

Date form received by agency: 04/18/2001

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Large Quantity Generator

Date form received by agency: 09/29/2000

REMEDIATION AND LIABILITY MANAGEMENT CO INC Site name:

Classification: Large Quantity Generator

Date form received by agency: 12/26/1996

REMEDIATION AND LIABILITY MANAGEMENT CO INC Site name:

Classification: Large Quantity Generator

Date form received by agency: 01/01/1980

Site name: REMEDIATION AND LIABILITY MANAGEMENT CO INC

Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code:

Waste name: **IGNITABLE WASTE** 

Corrective Action Summary:

Event date: 09/16/1998

Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 09/16/1998

RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL Event:

Event date:

Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 05/16/2000

Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 11/30/2000

Event: INVESTIGATION REPORT RECEIVED

Event date: 03/29/2001

Event: -MISSING EVENT NAME-

Event date: 04/27/2001

Event: INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED

Event date: 05/01/2009

DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT Event:

**NECESSARY** 

Event date: 01/11/2012

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

Event: ORDER APPEALED

Event date: 11/21/2012

Event: ORDER APPEALED

Event date: 02/01/2013

Event: ORDER APPEALED

Event date: 03/21/2014

Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS

DATE

Event date: 03/21/2014

Event: ORDER APPEALED

Event date: 10/23/2014

ORDER APPEALED Event:

Event date: 04/23/2015

RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE Event:

10/21/2015 Event date:

Event: ORDER APPEALED

Event date: 10/25/2016

Event: ORDER APPEALED

Event date: 09/26/2017

REMEDY CONSTRUCTION-REMEDY CONSTRUCTED Event:

Event date: 11/15/2017

Event: ORDER APPEALED

Event date: 03/07/2018

INSTITUTIONAL CONTROLS ESTABLISHED-INFORMATIONAL DEVICE Event:

Event date: 09/18/2018

Event: CA PERFORMANCE STANDARDS ATTAINED - CONTROLS REQUIRED

Event date:

READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE Event:

Facility Has Received Notices of Violations:

Regulation violated: Not reported Area of violation:

Generators - General

Date violation determined: 04/23/2004 Date achieved compliance: 11/05/2004 Violation lead agency: State

WRITTEN INFORMAL Enforcement action:

Enforcement action date: 05/11/2004 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

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

Regulation violated: Not reported

Generators - Records/Reporting Area of violation:

Date violation determined: 04/23/2004 Date achieved compliance: 11/05/2004 Violation lead agency: State

WRITTEN INFORMAL Enforcement action:

Enforcement action date: 05/11/2004 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Not reported Proposed penalty amount: Not reported Final penalty amount: Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Corrective Action for SWMUs

03/01/2004 Date violation determined: Date achieved compliance: 07/16/2004 Violation lead agency: State

WRITTEN INFORMAL Enforcement action:

Enforcement action date: 03/01/2004 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported Not reported Final penalty amount: Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Generators - Records/Reporting

04/28/1998 Date violation determined: Date achieved compliance: 08/10/1998 Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/28/1998 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 Not reported Paid penalty amount:

Regulation violated: Not reported

Generators - Pre-transport Area of violation:

Date violation determined: 04/28/1998 Date achieved compliance: 08/10/1998 Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/28/1998 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

Direction Distance

Elevation Site Database(s) EPA ID Number

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Area of violation: Generators - General

Date violation determined: 04/28/1998
Date achieved compliance: 08/10/1998
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/28/1998
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: 11/29/2017

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/03/2017

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/25/2016

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 07/14/2016

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/10/2015

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/06/2015

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/30/2015

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/14/2014

Direction Distance

Elevation Site Database(s) EPA ID Number

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/04/2013

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 09/13/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/10/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 03/30/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/10/2011

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/23/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 11/05/2004 Evaluation lead agency: State

Evaluation date: 04/23/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Records/Reporting

Date achieved compliance: 11/05/2004 Evaluation lead agency: State

Evaluation date: 03/01/2004

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 07/16/2004 Evaluation lead agency: State

Evaluation date: 04/25/2003

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation: Not reported Date achieved compliance: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

**EDR ID Number** 

Evaluation lead agency: State

Evaluation date: 07/05/2001

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/13/2001

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/25/2001

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/01/2000

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/20/1999

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/07/1998

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 03/27/1998

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Generators - Pre-transport

Date achieved compliance: 08/10/1998 Evaluation lead agency: State

Evaluation date: 03/27/1998

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Generators - General

Date achieved compliance: 08/10/1998 Evaluation lead agency: State

Evaluation date: 03/27/1998

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Generators - Records/Reporting

Date achieved compliance: 08/10/1998 Evaluation lead agency: State

2020 COR ACTION:

EPA ID: MIR000020743

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

#### REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST (Continued)

1001124136

Region:

Action: Remedy Construction

 W106
 COLDWATER ROAD LANDFILL
 SEMS-ARCHIVE
 1000704608

 West
 1245 E COLDWATER RD
 CORRACTS
 MID005356860

 1/4-1/2
 FLINT, MI 48505
 RCRA-TSDF

 0.412 mi.
 RCRA-LQG

 2174 ft.
 Site 2 of 3 in cluster W
 US INST CONTROL

 Actual:
 US FIN ASSUR

 804 ft.
 2020 COR ACTION

Focus Map:

NY MANIFEST

SEMS Archive:

Site ID: 0502271 EPA ID: MID005356860

 Cong District:
 07

 FIPS Code:
 26049

 FF:
 N

NPL: Not on the NPL

Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

 Region:
 05

 Site ID:
 0502271

 EPA ID:
 MID005356860

Site Name: GMC FISHER BODY COLDWATER ROAD

 NPL:
 N

 FF:
 N

 OU:
 00

 Action Code:
 VS

 Action Name:
 ARCH SITE

SEQ: 1

Start Date: Not reported
Finish Date: 1983-05-01 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

 Region:
 05

 Site ID:
 0502271

 EPA ID:
 MID005356860

Site Name: GMC FISHER BODY COLDWATER ROAD

 NPL:
 N

 FF:
 N

 OU:
 00

 Action Code:
 DS

 Action Name:
 DISCVRY

SEQ: 1
Start Date: 1979-12-01 05:00:00

Finish Date: 1979-12-01 05:00:00

Qual: Not reported

Current Action Lead: EPA Perf

 Region:
 05

 Site ID:
 0502271

 EPA ID:
 MID005356860

Site Name: GMC FISHER BODY COLDWATER ROAD

NPL: N

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

FF: Ν OU: 00 Action Code: PΑ Action Name: PΑ SEQ:

Start Date: Not reported 1983-05-01 04:00:00 Finish Date:

Qual: Ν Current Action Lead: St Perf

CORRACTS:

NAICS Code(s):

EPA ID: MID005356860

EPA Region: **ENTIRE FACILITY** Area Name: Actual Date: 20180907 CA001 Action:

525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region:

**ENTIRE FACILITY** Area Name: Actual Date: 20171012

CA001 Action: NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** Actual Date: 20170530

Action: CA241CA NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

Actual Date: 20161025 Action: CA001 NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region:

**ENTIRE FACILITY** Area Name:

Actual Date: 20151021 Action: CA001

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

Actual Date: 20150325 Action: CA800YE 525920 NAICS Code(s):

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

Actual Date: 20150129

CA999NF - Corrective Action Process Terminated, No Further Action Action:

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

Actual Date: 20150129

CA999NF - Corrective Action Process Terminated, No Further Action Action:

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

Actual Date: 20141202 Action: CA001 NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region:

Area Name: **ENTIRE FACILITY** Actual Date: 20140731

CA550RC Action: NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Not reported Schedule end date:

EPA ID: MID005356860

EPA Region: 05

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **COLDWATER ROAD LANDFILL (Continued)**

Area Name: **ENTIRE FACILITY** Actual Date: 20140731

Action: CA550RC NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region:

**ENTIRE FACILITY** Area Name:

20131011 Actual Date: Action: CA001 NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

Actual Date: 20121101 CA001 Action: NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

**BACK AREA** Area Name: Actual Date: 20071210 Action: CA800YE NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **BACK AREA** Actual Date: 20060727 Action: CA550RC NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05 **BACK AREA** Area Name: Actual Date: 20050624 CA772PR Action: NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

1000704608

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# **COLDWATER ROAD LANDFILL (Continued)**

1000704608

EPA ID: MID005356860

EPA Region: 05 **BACK AREA** Area Name: Actual Date: 20050624 Action: CA772PR NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

MID005356860 EPA ID:

EPA Region: 05

WASTEWATER TREATMENT PLANT Area Name:

Actual Date: 19990614 Action: CA536 NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: WASTEWATER TREATMENT PLANT

Actual Date: 19981208 Action: CA497 NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region:

Area Name: WASTEWATER TREATMENT PLANT

Actual Date: 19981027 CA536 Action: NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

Actual Date: 19980529

CA725YE - Current Human Exposures Under Control, Yes, Current Human Action:

Exposures Under Control has been verified

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** Actual Date: 19980529

CA750YE - Migration of Contaminated Groundwater under Control, Yes. Action:

Migration of Contaminated Groundwater Under Control has been verified

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

 Area Name:
 BACK AREA

 Actual Date:
 19941114

 Action:
 CA507

 NAICS Code(s):
 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 19941108

Action: CA650 - Stabilization Construction Completed

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: BACK AREA Actual Date: 19941108

Action: CA650 - Stabilization Construction Completed

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

 Area Name:
 BACK AREA

 Actual Date:
 19940829

 Action:
 CA506

 NAICS Code(s):
 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 09

Area Name: ENTIRE FACILITY

Actual Date: 19921221

Action: CA075HI - CA Prioritization, Facility or area was assigned a high

corrective action priority

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

**EDR ID Number** 

1000704608

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

19921029 Actual Date:

CA400 - Date For Remedy Selection (CM Imposed) Action:

NAICS Code(s):

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

Actual Date: 19921029

Action: CA600SR - Stabilization Measures Implemented, Primary measure is

source removal and/or treatment

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860 EPA Region: 05 **BACK AREA** Area Name: Actual Date: 19921029

Action: CA600SR - Stabilization Measures Implemented, Primary measure is

source removal and/or treatment

525920 NAICS Code(s):

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region:

Area Name: **ENTIRE FACILITY** 

Actual Date: 19921029

CA200 - RFI Approved Action:

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region:

Area Name: **ENTIRE FACILITY** 

Actual Date: 19921029

Action: CA100DC - RFI Imposition, Focused data collection required for

stabilization evaluation

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860 05

EPA Region: Area Name: WASTEWATER TREATMENT PLANT

Actual Date: 19921029

CA100DC - RFI Imposition, Focused data collection required for Action:

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

stabilization evaluation

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: BACK AREA Actual Date: 19921029

Action: CA100DC - RFI Imposition, Focused data collection required for

stabilization evaluation

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 19910927

Action: CA075HI - CA Prioritization, Facility or area was assigned a high

corrective action priority

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: BACK AREA Actual Date: 19890906

Action: CA500 - CMI Workplan Approved

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

 Area Name:
 BACK AREA

 Actual Date:
 19890906

 Action:
 CA516

 NAICS Code(s):
 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID005356860

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 19870528

Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

EPA ID: MID005356860

EPA Region: 05

Area Name: **ENTIRE FACILITY** 

Actual Date: 19870528

Action: CA050 - RFA Completed

NAICS Code(s): 525920

Trusts, Estates, and Agency Accounts

Original schedule date: Not reported Schedule end date: Not reported

RCRA-TSDF:

Date form received by agency: 02/22/2018

COLDWATER ROAD LANDFILL Facility name:

Facility address: 1245 E COLDWATER RD

FLINT, MI 48505

EPA ID: MID005356860

Mailing address: 500 WOODWARD AVE

STE 2650

DETROIT, MI 48226

Contact: DAVID FAVERO

500 WOODWARD AVE STE 2650 Contact address:

DETROIT, MI 48226

Contact country: US

Contact telephone: 734-879-9525

DFAVERO@RACERTRUST.ORG Contact email:

EPA Region: 05 Land type: Private Classification: **TSDF** 

Description: Handler is engaged in the treatment, storage or disposal of hazardous

waste

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: RACER PROPERTIES, LLC Owner/operator address: 500 WOODWARD AVE STE 2650

DETROIT, MI 48226

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 05/02/2011

Direction Distance Elevation

ation Site Database(s) EPA ID Number

#### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Owner/Op end date: Not reported

Owner/operator name: RACER PROPERTIES, LLC
Owner/operator address: 500 WOODWARD AVE STE 2650

DETROIT, MI 48226

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Operator Owner/Operator Type: Owner/Op start date: 03/31/2011 Owner/Op end date: Not reported

Owner/operator name: MOTORS LIQUIDATION CO (FORMERLY GM CORP

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 07/10/2009 Owner/Op end date: Not reported

Owner/operator name: MOTORS LIQUIDATION CO (FORMERLY GM CORP

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Not reported Owner/operator extension: Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 07/10/2009 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

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Historical Generators:

Date form received by agency: 04/03/2017

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 10/27/2016

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 05/04/2016

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 02/29/2016

Site name: COLDWATER ROAD LANDFILL Classification: Large Quantity Generator

Date form received by agency: 06/09/2015

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 08/05/2014

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 02/28/2014

Site name: COLDWATER ROAD LANDFILL Classification: Large Quantity Generator

Date form received by agency: 06/11/2013

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 07/10/2012

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 03/02/2012

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 06/29/2011

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 02/26/2010

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 02/26/2010

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 01/12/2009

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date form received by agency: 03/01/2008

Site name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 02/28/2008

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/22/2007

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/20/2006

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/01/2006

Site name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 05/14/2004

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/01/2004

Site name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 09/10/2002

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 02/28/2000

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 02/28/2000

Site name: GMC DELPHI INTERIOR & LIGHTING SYSTEMS

Classification: Large Quantity Generator

Date form received by agency: 12/26/1996

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 02/16/1996

Site name: GM WORLD WIDE FACILITIES GROUP

Classification: Large Quantity Generator

Date form received by agency: 02/23/1994

Site name: GMC, INLAND FISHER GUIDE Classification: Large Quantity Generator

Date form received by agency: 02/05/1992

Site name: GMC INLAND FISHER GUIDE Classification: Large Quantity Generator

Date form received by agency: 02/14/1990

Direction Distance Elevation

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Site name: G.M.C. INLAND FISHER GUIDE Classification: Small Quantity Generator

Date form received by agency: 11/19/1980

Site name: MOTORS LIQUIDATION COMPANY

Classification: Not a generator, verified

Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Waste code: F006

. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT

FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF

ALUMINUM.

. Waste code: F039

Waste name: LEACHATE RESULTING FROM THE TREATMENT, STORAGE, OR DISPOSAL OF WASTES

CLASSIFIED BY MORE THAN ONE WASTE CODE UNDER SUBPART D, OR FROM A MIXTURE OF WASTES CLASSIFIED UNDER SUBPARTS C AND D OF THIS PART. (LEACHATE RESULTING FROM THE MANAGEMENT OF ONE OR MORE OF THE

FOLLOWING EPA HAZARDOUS WASTES AND NO OTHER HAZARDOUS WASTES RETAINS

ITS HAZARDOUS WASTE CODE(S): F020, F021, F022, F023, F026, F027,

AND/OR F028.)

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: F006

Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT

FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF

ALUMINUM.

Amount (Lbs): 0

Waste code: F039

Waste name: LEACHATE (LIQUIDS THAT HAVE PERCOLATED THROUGH LAND DISPOSED WASTES)

RESULTING FROM THE DISPOSAL OF MORE THAN ONE RESTRICTED WASTE CLASSIFIED AS HAZARDOUS UNDER SUBPART D OF THIS PART. (LEACHATE RESULTING FROM THE DISPOSAL OF ONE OR MORE OF THE FOLLOWING EPA HAZARDOUS WASTES AND NO OTHER HAZARDOUS WASTES RETAINS ITS EPA HAZARDOUS WASTES NUMBER(S): F020, F021, F022, F026, F027, AND/OR

F028).

Amount (Lbs): 0

Direction Distance Elevation

evation Site Database(s) EPA ID Number

#### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Corrective Action Summary:

Event date: 05/28/1987
Event: RFA COMPLETED

Event date: 05/28/1987

Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 09/06/1989

Event: CMI IMPLEMENTATION BEGUN

Event date: 09/06/1989

Event: CMI WORKPLAN APPROVED

Event date: 09/27/1991

Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 10/29/1992

Event: REMEDY DECISION

Event date: 10/29/1992

Event: INVESTIGATION COMPLETE

Event date: 10/29/1992

Event: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL

Event date: 10/29/1992

Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL

&/OR TRT

Event date: 12/21/1992

Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 08/29/1994

Event: CMI SUP WORKPLAN DUE/RECEIVED

Event date: 11/08/1994

Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 11/14/1994

Event: CMI SUP WORKPLAN APPROVED

Event date: 05/29/1998

Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS

DATE

Event date: 05/29/1998

Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 10/27/1998

Event: CMI REPORT RECEIVED

Event date: 12/08/1998

Event: CMI MODIFICATION REQUESTED

Event date: 06/14/1999

Event: CMI REPORT RECEIVED

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Event date: 06/24/2005

Event: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL

Event date: 06/24/2005

Event: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL

Event date: 07/27/2006

Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 12/10/2007

Event: READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE

Event date: 11/01/2012

Event: ORDER APPEALED

Event date: 11/01/2012

Event: ORDER APPEALED

Event date: 10/11/2013

Event: ORDER APPEALED

Event date: 07/31/2014

Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 12/02/2014

Event: ORDER APPEALED

Event date: 01/29/2015

Event: CA PROCESS IS TERMINATED-NO FURTHER ACTION

Event date: 03/25/2015

Event: READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE

Event date: 10/21/2015

Event: ORDER APPEALED

Event date: 10/25/2016

Event: ORDER APPEALED

Event date: 05/30/2017

Event: VI evaluation complete additional CA required through normal CA

process

Event date: 10/12/2017

Event: ORDER APPEALED

Event date: 09/07/2018

Event: ORDER APPEALED

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General

Date violation determined: 08/14/2009
Date achieved compliance: 01/25/2012
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/17/2009

Direction Distance Elevation

ration Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Enf. disposition status:

Enf. disp. status date:

Enforcement lead agency:

Proposed penalty amount:

Final penalty amount:

Paid penalty amount:

Not reported

Not reported

Not reported

Not reported

Not reported

Regulation violated: Not reported

Area of violation: TSD IS-General Facility Standards

Date violation determined: 08/14/2009
Date achieved compliance: 01/25/2012
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/17/2009
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 IS-General Facility Standards

Date violation determined: 06/28/2007
Date achieved compliance: 09/26/2008
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/2007
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 - Pre-transport

Date violation determined: 06/28/2007
Date achieved compliance: 09/26/2008
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

Froposed penalty amount: Not reported Not reported Paid penalty amount: Not reported Not reported

Regulation violated: Not reported

Area of violation: TSD - Closure/Post-Closure

Date violation determined: 04/15/2005
Date achieved compliance: 10/13/2005
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/15/2005 Enf. disposition status: Not reported

Direction Distance Elevation

vation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

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: 09/06/1995
Date achieved compliance: 12/20/1996
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/06/1995
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 - Corrective Action for SWMUs

Date violation determined: 09/12/1994
Date achieved compliance: 09/28/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/16/1994
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: TSD - Corrective Action for SWMUs

Date violation determined: 10/29/1992
Date achieved compliance: 10/29/1992
Violation lead agency: State

Enforcement action: STATE EQUIVALENT 3008(H) CA ORDER

Enforcement action date: 10/29/1992
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

Final penalty amount: Not reported Not reported Not reported Not reported

Regulation violated: Not reported Area of violation: TSD - General Date violation determined: 06/20/1988 Date achieved compliance: Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/22/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

Direction Distance Elevation

vation Site Database(s) EPA ID Number

# COLDWATER ROAD LANDFILL (Continued)

1000704608

**EDR ID Number** 

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: 06/20/1988
Date achieved compliance: 07/14/1989
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/14/1988
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 IS-Ground-Water Monitoring

Date violation determined: 04/03/1984

Date achieved compliance: 05/30/1984

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 05/07/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Ground-Water Monitoring

Date violation determined: 04/03/1984
Date achieved compliance: 06/12/1984
Violation lead agency: EPA

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 05/07/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported

Froposed penalty amount: Not reported Final penalty amount: Not reported Not reported Not reported

**Evaluation Action Summary:** 

Evaluation date: 09/05/2018

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 06/06/2018

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported

Direction Distance Elevation

tion Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 04/11/2018

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/05/2018

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 12/27/2017

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 11/29/2017

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/06/2017

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/24/2017

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/18/2016

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 11/16/2016

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/27/2016

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 03/23/2016

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/10/2015

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 09/16/2015

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/24/2015

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/14/2014

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 09/29/2014

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/15/2014

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/28/2014

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 03/25/2014

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 02/06/2014

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported

Direction Distance Elevation

ation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 12/04/2013

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 10/08/2013

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 06/20/2013

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 04/16/2013

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/26/2013

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 03/22/2013

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/07/2012

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 04/10/2012

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 07/25/2011

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance

Elevation Site Database(s) EPA ID Number

# COLDWATER ROAD LANDFILL (Continued)

1000704608

**EDR ID Number** 

Evaluation date: 06/21/2011

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/24/2011

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/23/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 02/10/2011

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/21/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/07/2010

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 06/17/2010

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 05/27/2010

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 05/25/2010

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/07/2009

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

# COLDWATER ROAD LANDFILL (Continued)

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 11/06/2009

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/14/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 01/25/2012 Evaluation lead agency: State

Evaluation date: 07/14/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-General Facility Standards

Date achieved compliance: 01/25/2012 Evaluation lead agency: State

Evaluation date: 09/19/2008

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 02/05/2008

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/01/2008

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/12/2007

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 11/08/2007

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/28/2007

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 06/28/2007

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Pre-transport

Date achieved compliance: 09/26/2008 Evaluation lead agency: State

Evaluation date: 06/28/2007

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-General Facility Standards

Date achieved compliance: 09/26/2008 Evaluation lead agency: State

Evaluation date: 05/02/2007

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 11/22/2006

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/26/2006

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/22/2005

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/13/2005

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 08/10/2005

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/15/2005

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 10/13/2005 Evaluation lead agency: State

Evaluation date: 03/23/2005

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported

Direction Distance Elevation

vation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 03/14/2005

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 02/11/2005

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 01/21/2005

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 11/19/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/18/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/08/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/23/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/29/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 05/26/2004

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 03/08/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/01/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 12/19/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/08/2003

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/13/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 08/06/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/24/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 04/25/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 02/24/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/21/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported

Direction Distance Elevation

vation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 01/31/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 10/15/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/20/2002

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 08/29/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/14/2002

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/17/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 06/21/2002

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 05/24/2002

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/22/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance Elevation

vation Site Database(s) EPA ID Number

**COLDWATER ROAD LANDFILL (Continued)** 

Evaluation date: 04/19/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/19/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 02/08/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 02/07/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/05/2002

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 01/24/2001

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/03/2000

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 10/31/2000

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 10/12/2000

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/30/1999

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Not reported

**EDR ID Number** 

1000704608

Direction Distance Elevation

evation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 09/07/1999

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 08/20/1999

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 04/26/1999

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 04/13/1999

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/23/1999

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/17/1997

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/01/1997

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 06/19/1997

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 05/15/1997

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Direction Distance

Elevation Site Database(s) EPA ID Number

**COLDWATER ROAD LANDFILL (Continued)** 

Evaluation date: 04/22/1997

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/20/1996

Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - General

Date achieved compliance: 12/20/1996 Evaluation lead agency: State

Evaluation date: 12/10/1996

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/24/1996

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/06/1996

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 04/18/1996

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/09/1996

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/21/1995

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
State

Evaluation date: 08/15/1995

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 12/20/1996 Evaluation lead agency: State

Evaluation date: 04/21/1995

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported

**EDR ID Number** 

1000704608

Direction Distance

Elevation Site Database(s) EPA ID Number

**COLDWATER ROAD LANDFILL (Continued)** 

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 11/21/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 10/05/1994

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/16/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 09/28/1994 Evaluation lead agency: State

Evaluation date: 09/09/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/08/1994

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 08/24/1994

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/28/1994

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 07/07/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 06/30/1994

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Direction Distance Elevation

vation Site Database(s) EPA ID Number

**COLDWATER ROAD LANDFILL (Continued)** 

Evaluation date: 06/28/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 05/17/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/16/1994

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 11/22/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/19/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/30/1993

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/17/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 09/13/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 09/08/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/04/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported

**EDR ID Number** 

1000704608

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 07/20/1993

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 06/02/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 05/26/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 05/24/1993

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/17/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/14/1993

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/13/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 05/11/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 03/25/1993

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 02/24/1993

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 12/14/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 12/08/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/18/1992

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/13/1992

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 10/29/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/29/1992

Evaluation: NON-FINANCIAL RECORD REVIEW Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 10/29/1992 Evaluation lead agency: State

Evaluation date: 10/26/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/07/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/01/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Direction Distance

Elevation Site Database(s) EPA ID Number

# COLDWATER ROAD LANDFILL (Continued)

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 09/24/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 09/21/1992

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 09/21/1992

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
State

Evaluation date: 08/18/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/15/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/23/1992

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/28/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 01/22/1992

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/07/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance Elevation

tion Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 12/20/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/16/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 12/02/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 10/29/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/25/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/15/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/30/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/30/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
State

Evaluation date: 09/26/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/27/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 07/30/1991

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 07/18/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/17/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/12/1991

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 07/01/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/25/1991

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/13/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 05/24/1991

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 05/16/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Direction Distance Elevation

ation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

**EDR ID Number** 

1000704608

Evaluation date: 04/04/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/11/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 01/16/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 12/18/1990

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/11/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/01/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 10/16/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/21/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
State

Evaluation date: 09/19/1990

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/11/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 08/31/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 08/30/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 08/24/1990

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 08/21/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/26/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 07/19/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/17/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/16/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/06/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 05/04/1990

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/25/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 04/25/1990

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/03/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/28/1990

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 07/14/1989

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 07/14/1989

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 06/20/1988

Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements

Date achieved compliance: 07/14/1989 Evaluation lead agency: State

Evaluation date: 06/20/1988

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - General Date achieved compliance: 07/15/1988 Evaluation lead agency: State

Evaluation date: 09/30/1987

Evaluation: GROUNDWATER MONITORING EVALUATION

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/12/1987

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 06/05/1986

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 04/01/1986

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
EPA

Evaluation date: 04/24/1985

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/03/1984

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 06/12/1984 Evaluation lead agency: EPA

Evaluation date: 04/03/1984

Evaluation: NON-FINANCIAL RECORD REVIEW Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 05/30/1984 Evaluation lead agency: State

Evaluation date: 08/31/1983

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 08/15/1983

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

RCRA-LQG:

Date form received by agency: 02/22/2018

Facility name: COLDWATER ROAD LANDFILL Facility address: 1245 E COLDWATER RD

FLINT, MI 48505

EPA ID: MID005356860
Mailing address: 500 WOODWARD AVE

Direction Distance Elevation

evation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

STE 2650

DETROIT, MI 48226 DAVID FAVERO

Contact address: 500 WOODWARD AVE STE 2650

DETROIT, MI 48226

Contact country: US

Contact:

Contact telephone: 734-879-9525

Contact email: DFAVERO@RACERTRUST.ORG

EPA Region: 05
Land type: Private
Classification: TSDF

Description: Handler is engaged in the treatment, storage or disposal of hazardous

waste

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: RACER PROPERTIES, LLC
Owner/operator address: 500 WOODWARD AVE STE 2650

DETROIT, MI 48226

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 05/02/2011 Owner/Op end date: Not reported

Owner/operator name: RACER PROPERTIES, LLC
Owner/operator address: 500 WOODWARD AVE STE 2650

DETROIT, MI 48226

Owner/operator country: US

Owner/Op end date:

Owner/operator telephone:
Owner/operator email:
Owner/operator fax:
Owner/operator extension:
Legal status:
Owner/Operator Type:
Owner/Operator date:
Owner/Operator date:
Not reported
Not reported
Overeported
Not reported
Overeported
Not reported
Overeported
Not reported
Overeported
Overeporte

Owner/operator name: MOTORS LIQUIDATION CO (FORMERLY GM CORP

Owner/operator address: Not reported

Not reported

Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Private Legal status: Owner/Operator Type: Owner Owner/Op start date: 07/10/2009 Owner/Op end date: Not reported

Owner/operator name: MOTORS LIQUIDATION CO (FORMERLY GM CORP

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 07/10/2009 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: Nο 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

#### Historical Generators:

Date form received by agency: 04/03/2017

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 10/27/2016

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 05/04/2016

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 02/29/2016

Site name: COLDWATER ROAD LANDFILL Classification: Large Quantity Generator

Direction Distance

Elevation Site Database(s) EPA ID Number

# COLDWATER ROAD LANDFILL (Continued)

1000704608

**EDR ID Number** 

Date form received by agency: 06/09/2015

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 08/05/2014

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 02/28/2014

Site name: COLDWATER ROAD LANDFILL Classification: Large Quantity Generator

Date form received by agency: 06/11/2013

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 07/10/2012

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 03/02/2012

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 06/29/2011

Site name: REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

Classification: Large Quantity Generator

Date form received by agency: 02/26/2010

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 02/26/2010

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 01/12/2009

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/01/2008

Site name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 02/28/2008

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/22/2007

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/20/2006

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/01/2006

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Site name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 05/14/2004

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/01/2004

Site name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 09/10/2002

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 02/28/2000

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 02/28/2000

Site name: GMC DELPHI INTERIOR & LIGHTING SYSTEMS

Classification: Large Quantity Generator

Date form received by agency: 12/26/1996

Site name: MOTORS LIQUIDATION COMPANY

Classification: Large Quantity Generator

Date form received by agency: 02/16/1996

Site name: GM WORLD WIDE FACILITIES GROUP

Classification: Large Quantity Generator

Date form received by agency: 02/23/1994

Site name: GMC, INLAND FISHER GUIDE Classification: Large Quantity Generator

Date form received by agency: 02/05/1992

Site name: GMC INLAND FISHER GUIDE Classification: Large Quantity Generator

Date form received by agency: 02/14/1990

Site name: G.M.C. INLAND FISHER GUIDE Classification: Small Quantity Generator

Date form received by agency: 11/19/1980

Site name: MOTORS LIQUIDATION COMPANY

Classification: Not a generator, verified

#### Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Waste code: F006

Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT

FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON

Direction Distance

Elevation Site Database(s) EPA ID Number

# COLDWATER ROAD LANDFILL (Continued)

1000704608

**EDR ID Number** 

STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF

ALUMINUM.

. Waste code: F039

. Waste name: LEACHATE RESULTING FROM THE TREATMENT, STORAGE, OR DISPOSAL OF WASTES

CLASSIFIED BY MORE THAN ONE WASTE CODE UNDER SUBPART D, OR FROM A MIXTURE OF WASTES CLASSIFIED UNDER SUBPARTS C AND D OF THIS PART. (LEACHATE RESULTING FROM THE MANAGEMENT OF ONE OR MORE OF THE

FOLLOWING EPA HAZARDOUS WASTES AND NO OTHER HAZARDOUS WASTES RETAINS

ITS HAZARDOUS WASTE CODE(S): F020, F021, F022, F023, F026, F027,

AND/OR F028.)

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: F006

Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT

FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF

ALUMINUM.

Amount (Lbs): 0

Waste code: F039

Waste name: LEACHATE (LIQUIDS THAT HAVE PERCOLATED THROUGH LAND DISPOSED WASTES)

RESULTING FROM THE DISPOSAL OF MORE THAN ONE RESTRICTED WASTE CLASSIFIED AS HAZARDOUS UNDER SUBPART D OF THIS PART. (LEACHATE RESULTING FROM THE DISPOSAL OF ONE OR MORE OF THE FOLLOWING EPA HAZARDOUS WASTES AND NO OTHER HAZARDOUS WASTES RETAINS ITS EPA HAZARDOUS WASTES NUMBER(S): F020, F021, F022, F026, F027, AND/OR

F028).

Amount (Lbs): 0

Corrective Action Summary:

Event date: 05/28/1987 Event: RFA COMPLETED

Event date: 05/28/1987

Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 09/06/1989

Event: CMI IMPLEMENTATION BEGUN

Event date: 09/06/1989

Event: CMI WORKPLAN APPROVED

Event date: 09/27/1991

Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 10/29/1992

Event: REMEDY DECISION

Direction Distance

Elevation Site Database(s) EPA ID Number

COLDWATER ROAD LANDFILL (Continued)

Event date:

10/29/1992

Event: INVESTIGATION COMPLETE

Event date: 10/29/1992

Event: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL

Event date: 10/29/1992

Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL

&/OR TRT

Event date: 12/21/1992

Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 08/29/1994

Event: CMI SUP WORKPLAN DUE/RECEIVED

Event date: 11/08/1994

Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 11/14/1994

Event: CMI SUP WORKPLAN APPROVED

Event date: 05/29/1998

Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS

DATE

Event date: 05/29/1998

Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 10/27/1998

Event: CMI REPORT RECEIVED

Event date: 12/08/1998

Event: CMI MODIFICATION REQUESTED

Event date: 06/14/1999

Event: CMI REPORT RECEIVED

Event date: 06/24/2005

Event: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL

Event date: 06/24/2005

Event: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL

Event date: 07/27/2006

Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 12/10/2007

Event: READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE

Event date: 11/01/2012

Event: ORDER APPEALED

Event date: 11/01/2012

Event: ORDER APPEALED

Event date: 10/11/2013

**EDR ID Number** 

1000704608

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Event: ORDER APPEALED

Event date: 07/31/2014

Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 12/02/2014

Event: ORDER APPEALED

Event date: 01/29/2015

Event: CA PROCESS IS TERMINATED-NO FURTHER ACTION

Event date: 03/25/2015

Event: READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE

Event date: 10/21/2015

Event: ORDER APPEALED

Event date: 10/25/2016

Event: ORDER APPEALED

Event date: 05/30/2017

Event: VI evaluation complete additional CA required through normal CA

process

Event date: 10/12/2017

Event: ORDER APPEALED

Event date: 09/07/2018

Event: ORDER APPEALED

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 08/14/2009
Date achieved compliance: 01/25/2012
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/17/2009
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 IS-General Facility Standards

Date violation determined: 08/14/2009
Date achieved compliance: 01/25/2012
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/17/2009
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

Map ID MAP FINDINGS
Direction

Distance Elevation Site

vation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-General Facility Standards

Date violation determined: 06/28/2007
Date achieved compliance: 09/26/2008
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/2007
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 - Pre-transport

Date violation determined: 06/28/2007
Date achieved compliance: 09/26/2008
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/2007
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: 04/15/2005
Date achieved compliance: 10/13/2005
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL Enforcement action date: 04/15/2005

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

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 09/06/1995
Date achieved compliance: 12/20/1996
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/06/1995
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

Direction Distance Elevation

on Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Regulation violated: Not reported

Area of violation: TSD - Corrective Action for SWMUs

Date violation determined: 09/12/1994
Date achieved compliance: 09/28/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/16/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Paid penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Corrective Action for SWMUs

Date violation determined: 10/29/1992
Date achieved compliance: 10/29/1992
Violation lead agency: State

Enforcement action: STATE EQUIVALENT 3008(H) CA ORDER

Enforcement action date: 10/29/1992
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

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 06/20/1988
Date achieved compliance: 07/15/1988
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date:

Enf. disposition status:

Enf. disp. status date:

Enforcement lead agency:

Proposed penalty amount:

Final penalty amount:

Paid penalty amount:

O6/22/1988

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

Regulation violated: Not reported

Area of violation: TSD - Financial Requirements

Date violation determined: 06/20/1988
Date achieved compliance: 07/14/1989
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/14/1988
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

Direction Distance Elevation

Site Database(s) **EPA ID Number** 

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Area of violation: TSD IS-Ground-Water Monitoring

04/03/1984 Date violation determined: 05/30/1984 Date achieved compliance: Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

05/07/1984 Enforcement action date: Enf. disposition status: Not reported Enf. disp. status date: Not reported EPA Enforcement lead agency: Proposed penalty amount: Not reported Not reported Final penalty amount: Not reported

Regulation violated: Not reported

Paid penalty amount:

Area of violation: TSD IS-Ground-Water Monitoring

Date violation determined: 04/03/1984 06/12/1984 Date achieved compliance: Violation lead agency: **EPA** 

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 05/07/1984 Enf. disposition status: Not reported Enf. disp. status date: Not reported

Enforcement lead agency: **EPA** 

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

**Evaluation Action Summary:** 

Evaluation date: 09/05/2018

FINANCIAL RECORD REVIEW Evaluation:

Not reported Area of violation: Date achieved compliance: Not reported Evaluation lead agency: State

06/06/2018 Evaluation date:

NON-FINANCIAL RECORD REVIEW Evaluation:

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 04/11/2018

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 01/05/2018

OPERATION AND MAINTENANCE INSPECTION Evaluation:

Not reported Area of violation: Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 12/27/2017

NON-FINANCIAL RECORD REVIEW Evaluation:

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

Evaluation date: 11/29/2017

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/06/2017

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 01/24/2017

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 11/18/2016

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/16/2016

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/27/2016

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/23/2016

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 12/10/2015

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/16/2015

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 02/24/2015

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported

**EDR ID Number** 

1000704608

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 11/14/2014

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/29/2014

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 08/15/2014

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 03/28/2014

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 03/25/2014

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/06/2014

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/04/2013

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 10/08/2013

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/20/2013

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 04/16/2013

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/26/2013

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 03/22/2013

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/07/2012

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/10/2012

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/25/2011

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 06/21/2011

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 03/24/2011

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 03/23/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/10/2011

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 01/21/2011

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/07/2010

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 06/17/2010

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
State

Evaluation date: 05/27/2010

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/25/2010

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/07/2009

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/06/2009

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 07/14/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 01/25/2012 Evaluation lead agency: State

Evaluation date: 07/14/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-General Facility Standards

Date achieved compliance: 01/25/2012 Evaluation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

**COLDWATER ROAD LANDFILL (Continued)** 

Evaluation date: 09/19/2008

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 02/05/2008

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 02/01/2008

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 12/12/2007

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/08/2007

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 08/28/2007

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 06/28/2007

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Pre-transport

Date achieved compliance: 09/26/2008 Evaluation lead agency: State

Evaluation date: 06/28/2007

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-General Facility Standards

Date achieved compliance: 09/26/2008 Evaluation lead agency: State

Evaluation date: 05/02/2007

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/22/2006

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Not reported

**EDR ID Number** 

1000704608

Direction Distance

Elevation Site Database(s) EPA ID Number

**COLDWATER ROAD LANDFILL (Continued)** 

Date achieved compliance:

Evaluation date:

Not reported

09/26/2006

Evaluation lead agency: State

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 12/22/2005

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 10/13/2005

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/10/2005

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/15/2005

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 10/13/2005 Evaluation lead agency: State

Evaluation date: 03/23/2005

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/14/2005

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 02/11/2005

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/21/2005

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

**EDR ID Number** 

1000704608

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 11/19/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/18/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 10/08/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/23/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/29/2004

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/26/2004

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/08/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/01/2004

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 12/19/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/08/2003

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID MAP FINDINGS
Direction

Distance Elevation

ation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 08/13/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 08/06/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 07/24/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 04/25/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/24/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/21/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 01/31/2003

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 10/15/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 09/20/2002

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 08/29/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/14/2002

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 07/17/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/21/2002

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/24/2002

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 04/22/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/19/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 02/19/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 02/08/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 02/07/2002

Evaluation: NON-FINANCIAL RECORD REVIEW

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 02/05/2002

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/24/2001

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 11/03/2000

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 10/31/2000

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 10/12/2000

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/30/1999

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Not reported

Not reported

Not reported

Evaluation lead agency: State

Evaluation date: 09/07/1999

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/20/1999

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/26/1999

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 04/13/1999

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/23/1999

Evaluation: OPERATION AND MAINTENANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 09/17/1997

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/01/1997

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/19/1997

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 05/15/1997

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/22/1997

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 12/20/1996

Evaluation: FOLLOW-UP INSPECTION Area of violation: Generators - General

Date achieved compliance: 12/20/1996 Evaluation lead agency: State

Evaluation date: 12/10/1996

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/24/1996

Evaluation: FOCUSED COMPLIANCE INSPECTION

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 06/06/1996

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 04/18/1996

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 04/09/1996

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 08/21/1995

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 08/15/1995

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 12/20/1996 Evaluation lead agency: State

Evaluation date: 04/21/1995

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/21/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/05/1994

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 09/16/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 09/28/1994 Evaluation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

Evaluation date: 09/09/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/08/1994

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 08/24/1994

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/28/1994

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/07/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/30/1994

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/28/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/17/1994

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/16/1994

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/22/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported

**EDR ID Number** 

1000704608

Map ID MAP FINDINGS
Direction

Direction

Elevation Site Database(s) EPA ID Number

### **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 10/19/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/30/1993

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 09/17/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 09/13/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/08/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/04/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/20/1993

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/02/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/26/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

**EDR ID Number** 

1000704608

Evaluation date: 05/24/1993

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/17/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/14/1993

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 05/13/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/11/1993

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 03/25/1993

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 02/24/1993

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 12/14/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 12/08/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/18/1992

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

# COLDWATER ROAD LANDFILL (Continued)

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 11/13/1992

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 10/29/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 10/29/1992

Evaluation: NON-FINANCIAL RECORD REVIEW Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 10/29/1992 Evaluation lead agency: State

Evaluation date: 10/26/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/07/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 10/01/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/24/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/21/1992

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 09/21/1992

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 08/18/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 04/15/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/23/1992

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 01/28/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 01/22/1992

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 01/07/1992

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/20/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 12/16/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 12/02/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 10/29/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 10/25/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 10/15/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/30/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/30/1991

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/26/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/27/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/30/1991

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/18/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 07/17/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Evaluation date: 07/12/1991

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 07/01/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/25/1991

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/13/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/24/1991

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/16/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 04/04/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 02/11/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 01/16/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/18/1990

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: Not reported

Map ID MAP FINDINGS
Direction

Direction Distance Elevation

tion Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 12/11/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 11/01/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 10/16/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 09/21/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/19/1990

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/11/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 08/31/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 08/30/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 08/24/1990

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

Evaluation date: 08/21/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/26/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/19/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/17/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/16/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 06/06/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/04/1990

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 04/25/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
State

Evaluation date: 04/25/1990

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 04/03/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: Not reported

**EDR ID Number** 

1000704608

Direction Distance

Elevation Site Database(s) EPA ID Number

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 03/28/1990

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
Not reported
State

Evaluation date: 07/14/1989

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:
Date achieved compliance:
Evaluation lead agency:
Not reported
State

Evaluation date: 07/14/1989

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
State

Evaluation date: 06/20/1988

Evaluation: FINANCIAL RECORD REVIEW Area of violation: TSD - Financial Requirements

Date achieved compliance: 07/14/1989 Evaluation lead agency: State

Evaluation date: 06/20/1988

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - General Date achieved compliance: 07/15/1988 Evaluation lead agency: State

Evaluation date: 09/30/1987

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 05/12/1987

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 06/05/1986

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 04/01/1986

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

EPA

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

Evaluation date: 04/24/1985

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Not reported Area of violation: Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 04/03/1984

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 06/12/1984 Evaluation lead agency: **EPA** 

Evaluation date: 04/03/1984

Evaluation: NON-FINANCIAL RECORD REVIEW Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 05/30/1984 Evaluation lead agency: State

Evaluation date: 08/31/1983

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

08/15/1983 Evaluation date:

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

US INST CONTROL:

**COLDWATER ROAD LANDFILL** Name: Address: 1245 E COLDWATER RD

Address 2: Not reported City, State, Zip: FLINT, MI 48505 EPA ID: MID005356860 Site ID: Not reported Action Name: Not reported Action ID: Not reported Not reported Operable Unit: 01/01/1900 Action Completion Date: 06/24/2005 Actual Date: Contaminated Media: Not reported Institutional Control: Not reported **Event Code:** CA772PR Contact Name: DAVID FAVERO Contact Telephone: 734-879-9525

Event: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL

US FIN ASSUR:

MID005356860 EPA ID: County: Not reported

Mechanism type:

Mechanism Type Description: TRUST FUND (FULLY FUNDED)

Cost estimate: 3346638 Face value: 15705419

Effective date: 2016-09-30 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

**COLDWATER ROAD LANDFILL (Continued)** 

1000704608

**EDR ID Number** 

Provider: RACER TRUST EPA region: 5

**G** 

2020 COR ACTION:

EPA ID: MID005356860

Region: 5

Action: Remedy Construction

PADS:

EPAID: MID005356860

Facility name: GENL MOTORS INLAND FISHER GUID

Facility Address: 1245 E COLDWATER RD

FLINT, MI 48559

Facility country: US
Generator: Yes
Storer: No
Transporter: No
Disposer: No
Research facility: No
Smelter: No

Facility owner name: GENL MOTORS
Contact title: Not reported

Contact name: JAMES R MACDONALD

Contact tel: 313-234-7330
Contact extension: Not reported
Contact Email: Not reported

Mailing address: 1245 E COLDWATER RD

FLINT, MI 48559

Mailing country: US

Cert. date: 04/02/1990

NY MANIFEST:

Name: DELPHI INTERIOR & LIGHTING SYSTEM

Address: 1245 E COLDWATER RD

City, State, Zip: FLINT, MI 48505

Country: USA

EPA ID: MID005356860
Facility Status: Not reported

Location Address 1: 1245 E COLDWATER RD

Code: BP

Location Address 2: Not reported
Total Tanks: Not reported
Location City: FLINT
Location State: MI
Location Zip: 48559
Location Zip 4: Not reported

NY MANIFEST:

EPAID: MID005356860

Mailing Name: DELPHI INTERIOR & LIGHTING SYSTEM

Mailing Contact: RONALD V CICHOWICZ
Mailing Address 1: 1245 E COLDWATER RD

Mailing Address 2: Not reported Mailing City: FLINT Mailing State: MI Mailing Zip: 48559

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

## **COLDWATER ROAD LANDFILL (Continued)**

1000704608

**EDR ID Number** 

Mailing Zip 4: Not reported Mailing Country: USA Mailing Phone: 000000000

NY MANIFEST:

NYB7735266 Document ID:

Manifest Status:

seq: Not reported Year: 1996 Trans1 State ID: FT97514CA Trans2 State ID: Not reported Generator Ship Date: 05/09/1996 Trans1 Recv Date: 05/09/1996

Trans2 Recv Date:

TSD Site Recv Date: 05/10/1996 Part A Recv Date: 05/20/1996 Part B Recv Date: 05/21/1996 Generator EPA ID: MID005356860 Trans1 EPA ID: MOD095038998 Trans2 EPA ID: Not reported TSDF ID 1: NYD049836679 TSDF ID 2: Not reported Manifest Tracking Number: Not reported Import Indicator: Not reported **Export Indicator:** Not reported Discr Quantity Indicator: Not reported Discr Type Indicator: Not reported Discr Residue Indicator: Not reported Discr Partial Reject Indicator: Not reported Discr Full Reject Indicator: Not reported Manifest Ref Number: Not reported Alt Facility RCRA ID: Not reported Alt Facility Sign Date: Not reported MGMT Method Type Code: Not reported

Waste Code: B005 - PCB ARTICLES WITH 500 PPM OR > PCB

Waste Code: Not reported 00150 Quantity:

Units: K - Kilograms (2.2 pounds)

Number of Containers:

Container Type: DM - Metal drums, barrels

Handling Method: B Incineration, heat recovery, burning.

Specific Gravity: 100

Click this hyperlink while viewing on your computer to access

-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

 W107
 PEREGRINE INC
 MI LUST
 U003211590

 West
 1245 E COLDWATER RD
 MI UST
 N/A

1/4-1/2 FLINT, MI 48505

0.412 mi.

2174 ft. Site 3 of 3 in cluster W

Actual: LUST: 804 ft. Facility ID:

804 ft.Facility ID:00018297Focus Map:Source:STATE OF MICHIGAN10Owner Name:General Motors Corp

Owner Address: Argonaut A Building MC 482-310-004 485 W Milwaukee

Owner City,St,Zip: Detroit, MI 48202
Owner Contact: Not reported
Owner Phone: 313-556-0915

Country: USA
District: Lansing

Site Name: GM Inland Fisher Guide

Latitude: 43.09047 Longitude: -83.68551 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-0982-97
Release Date: 10/16/1997
Substance Released: Unknown
Release Status: Closed
Release Closed Date: 07/04/1998

Leak Number: C-2242-90
Release Date: 11/01/1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 06/06/1991

Leak Number:C-2356-90Release Date:11/09/1990Substance Released:Not reportedRelease Status:ClosedRelease Closed Date:09/20/1991

UST:

Facility Type: CLOSED Facility ID: 00018297

Facility Region: 2

Owner Name: GENERAL MOTORS CORP

Owner Address: ARGONAUT A BUILDING MC 482-310-004 485 W MILWAUKEE

**DETROIT** Owner City: Owner State: MI Owner Zip: 48202 Owner Contact: Not reported Owner Phone: 3135560915 Contact: **BOB PEARCE** Contact Phone: (313) 556-5022 Date of Collection: 01/11/2001 Accuracy: 100

Direction Distance

Elevation Site Database(s) EPA ID Number

**PEREGRINE INC (Continued)** 

U003211590

**EDR ID Number** 

Horizontal Datum: NAD83 Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

 Tank ID:
 5

 Capacity:
 1000

Tank Status: Removed from Ground Other(PLASTISOL) Substance: Not reported Install Date: 10/02/1997 Remove Date: Tank Number: UTK-042570-15 Not reported Tank Details Compartments: Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported Tank Construction: Unknown Not reported Impressed Device: Latitude: 43.09047 Longitude: -83.68551

Facility Type: CLOSED Facility ID: 00018297

Facility Region:

Owner Name: GENERAL MOTORS CORP

Owner Address: ARGONAUT A BUILDING MC 482-310-004 485 W MILWAUKEE

**DETROIT** Owner City: Owner State: MI Owner Zip: 48202 Owner Contact: Not reported 3135560915 Owner Phone: **BOB PEARCE** Contact: Contact Phone: (313) 556-5022 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 4 Capacity: 2000

Tank Status: Removed from Ground

Used Oil Substance: Install Date: 05/08/1975 11/08/1990 Remove Date: Tank Number: UTK-088849-15 Not reported Tank Details Compartments: Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

**PEREGRINE INC (Continued)** 

U003211590

**EDR ID Number** 

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.09047 Longitude: -83.68551

Facility Type: CLOSED
Facility ID: 00018297
Facility Region: 2

Owner Name: GENERAL MOTORS CORP

Owner Address: ARGONAUT A BUILDING MC 482-310-004 485 W MILWAUKEE

**DETROIT** Owner City: Owner State: MI Owner Zip: 48202 Owner Contact: Not reported 3135560915 Owner Phone: **BOB PEARCE** Contact: Contact Phone: (313) 556-5022 01/11/2001 Date of Collection: Accuracy: 100 NAD83 Horizontal Datum:

Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

 Tank ID:
 3

 Capacity:
 2000

Tank Status: Removed from Ground

Used Oil Substance: Install Date: 05/07/1976 Remove Date: 11/08/1990 Tank Number: UTK-007855-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.09047 Longitude: -83.68551

Facility Type: CLOSED Facility ID: 00018297

Facility Region: 2

Owner Name: GENERAL MOTORS CORP

Owner Address: ARGONAUT A BUILDING MC 482-310-004 485 W MILWAUKEE

**DETROIT** Owner City: Owner State: MI Owner Zip: 48202 Owner Contact: Not reported 3135560915 Owner Phone: Contact: **BOB PEARCE** Contact Phone: (313) 556-5022 Date of Collection: 01/11/2001

Accuracy: 100

Direction Distance

Elevation Site Database(s) EPA ID Number

**PEREGRINE INC (Continued)** 

U003211590

**EDR ID Number** 

Horizontal Datum: NAD83 Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 2000

Tank Status: Removed from Ground

Substance: Gasoline 05/07/1976 Install Date: 11/01/1990 Remove Date: Tank Number: UTK-088845-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.09047 Longitude: -83.68551

Facility Type: CLOSED Facility ID: 00018297

Facility Region:

Owner Name: GENERAL MOTORS CORP

Owner Address: ARGONAUT A BUILDING MC 482-310-004 485 W MILWAUKEE

**DETROIT** Owner City: Owner State: MI Owner Zip: 48202 Owner Contact: Not reported 3135560915 Owner Phone: **BOB PEARCE** Contact: Contact Phone: (313) 556-5022 Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 1

Capacity: 2000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 05/07/1976 10/31/1990 Remove Date: Tank Number: UTK-007854-15 Not reported Tank Details Compartments: Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

PEREGRINE INC (Continued) U003211590

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.09047 Longitude: -83.68551

 108
 NORTHWESTERN HIGH SCHOOL
 MI LUST
 U000253429

 East
 2138 W CARPENTER RD
 MI UST
 N/A

East 2138 W CARPENTER RD 1/4-1/2 FLINT, MI 48505

0.415 mi. 2193 ft.

Actual: LUST:

**750 ft.** Facility ID: 00033784

Focus Map: Source: STATE OF MICHIGAN
10 Owner Name: Flint Community Schools
Owner Address: 923 E. Kearsley Street

Owner City,St,Zip: Flint, MI 48506-4019 Owner Contact: Not reported Owner Phone: (313) 760-1312

Country: USA District: Lansing

Site Name: Flint Community Schools

Latitude: 43.07602 Longitude: -83.66293 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-1417-90Release Date:08/01/1990Substance Released:Not reportedRelease Status:ClosedRelease Closed Date:05/20/1996

UST:

Facility Type: CLOSED Facility ID: 00033784

Facility Region: 2

Owner Name: FLINT COMMUNITY SCHOOLS
Owner Address: 923 E. KEARSLEY STREET

Owner City: FLINT
Owner State: MI

48506-4019 Owner Zip: Owner Contact: Not reported Owner Phone: 3137601312 TOM SOPKO Contact: Contact Phone: (313) 760-1312 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

**FEET** 

Point Line Area: POINT

Accuracy Value Unit:

Desc Category: Plant Entrance (Freight)

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **NORTHWESTERN HIGH SCHOOL (Continued)**

U000253429

S100069438

N/A

MI HIST LF

Method of Collection: Address Matching-House Number

Lansing District Office District:

Tank ID: 1

Capacity: 12000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 04/27/1970 Remove Date: 08/01/1990 Tank Number: UTK-037484-15 Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

25000026

Impressed Device: Not reported 43.07602 Latitude: Longitude: -83.66293

**FLINT WOOD MATERIALS INC** 109 SSE 4060 1/2 N DORT HWY 1/4-1/2 **FLINT, MI 48506** 

0.426 mi. 2247 ft.

Actual: Historical LF: 724 ft. Facility ID:

Status: **INACTIVE** Focus Map: Not reported Contact: Facility Phone: Not reported Facility Fax: Not reported

Facility Type: Not reported Facility Email: Not reported Not reported Facility is Open: Facility Type: Other Facility Contact: VIRGIL SPO County Code: 25 Facility Number: 000026 Staff: Not reported

Active: Permit Date: Not reported Permit Number: Not reported

No

License Date:

Owner Address:

License No: Not reported No Waste: Not reported Enforcement: Not reported Exp Letters: Not reported Operator Name: Not reported **Operator Contact:** Not reported Not reported Operator Address: Operator City, St, Zip: Not reported Not reported Operator Telephone: Operator Fax: Not reported Operator Email: Not reported Owner Name: ANDREW GRAHAM Owner Contact: Not reported VIRGIL SPOONER Attention:

401 BOSCO CIEGA DR

Distance Elevation

Site Database(s) EPA ID Number

#### FLINT WOOD MATERIALS INC (Continued)

Owner City,St,Zip: MEDERIA BEACH, FL 33736

Owner Telephone: Not reported Owner Fax: Not reported Owner Email: Not reported District: Shawassee

Section: 32

Comments:

Permit Applicant: FLINT WOOD MATERIALS INC

Permit Applicant Contact: DONALD BLAND Permit Applicant Address: 4072 N DORT HWY Permit Applicant City, St, Zip: FLINT, MI 48506 Permit Applicant Phone: Not reported Application Type: Private Liner Information: Not reported Nature of Wastes Allowed: Not reported Township: Not reported Section Number: Not reported Not reported Township Section: District: Not reported Business Type: Not reported County Description: Not reported County 2 Description: Not reported Liner Type: Not reported Not reported Reported Date: Amount: 0.00 Financial Instrument: Not reported Fund Type: Not reported Not reported Issued Date: Expires: Not reported Expiry: Not reported Licensed: Not reported

Date of Expiry of Current License: Not reported Acreage Currently Licensed: 0.000 Acres Certified Closed: 0.000 Issue of 1st Construction Permit Date: Not reported Acres Given in 1st Construction Permit: 0.000 Issue of 2nd Construction Permit Date: Not reported Acres Given in 2nd Construction Permit: 0.000 Issue of 3rd Construction Permit Date: Not reported Acres Given in 3rd Construction Permit: 0.000 Restrictive Deed Covenant Filed: Not reported Perpetual Care Fund Type: Not reported Perpetual Care Fund Signed: Not reported Perpetual Care Fund Agreement Signed: Not reported Groundwater Monitoring System Exists: Not reported Date landill Certified Closed: Not reported Received Waste on or After Oct. 9, 1991: Not reported Site Monitorable Under Definition of New Rules:Not reported

Not reported

S100069438

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

110 MT MORRIS CONSOLIDATED SCHOOLS MI LUST 1000526786

WSW 12356 WALTER ST MI UST N/A
1/4-1/2 MOUNT MORRIS, MI 48458 MI INVENTORY

0.432 mi. MI Financial Assurance
2280 ft. MI WDS

Actual: LUST: 772 ft. Facility ID:

772 ft. Facility ID: 00035507
Focus Map: Source: STATE OF MICHIGAN

Owner Address: 51ATE OF MICHIGAN
Mt Morris Schools
12356 Walter St

Owner City, St, Zip: Mount Morris, MI 48458-1749

Owner Contact: Not reported
Owner Phone: (810) 591-3390

Country: USA
District: Lansing
Site Name: Mt Morris Schools

Latitude: 43.12397 Longitude: -83.69012 Date of Collection: 10/05/2004

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-1549-91
Release Date: 07/31/1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: 07/22/2002

UST:

Facility Type: ACTIVE Facility ID: 00035507

Facility Region: 2

Owner Name: MT MORRIS SCHOOLS
Owner Address: 12356 WALTER ST
Owner City: MOUNT MORRIS

Owner State: MI

48458-1749 Owner Zip: Owner Contact: Not reported 8105913390 Owner Phone: Contact: Steve Borrow Contact Phone: (810) 591-3390 Date of Collection: 10/05/2004 Accuracy: 100 Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Accuracy Value Unit:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**FEET** 

District: Lansing District Office

Tank ID: 5
Capacity: 6000

Tank Status: Currently In Use Substance: Gasoline Install Date: 12/23/1991

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

### MT MORRIS CONSOLIDATED SCHOOLS (Continued)

1000526786

**EDR ID Number** 

Remove Date: Not reported UTK-057137-15 Tank Number: Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging, Interstital Monitoring Double Walled

Tank/Piping

Automatic Line Leak Detectors, Interstitial Monitoring Double Walled Pipe Release Detection:

Piping,Line Tightness Testing,Other Double Walled, Flexible Piping

Piping Material: Piping Type: Pressure (Remote)

Tank Construction: Double Walled, Fiberglass Reinforced Plastic, Other

Impressed Device: Not reported 43.12397 Latitude: -83.69012 Longitude:

Facility Type: **ACTIVE** Facility ID: 00035507

Facility Region:

MT MORRIS SCHOOLS Owner Name: Owner Address: 12356 WALTER ST MOUNT MORRIS Owner City:

Owner State: MI

48458-1749 Owner Zip: Owner Contact: Not reported 8105913390 Owner Phone: Contact: Steve Borrow Contact Phone: (810) 591-3390 10/05/2004 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Lansing District Office District:

Tank ID: 2000 Capacity:

Removed from Ground Tank Status:

Substance: Used Oil Not reported Install Date: 12/19/1991 Remove Date: UTK-057133-15 Tank Number: Tank Details Compartments: Not reported Not reported Tank Release Detection: Not reported Pipe Release Detection: Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.12397 Longitude: -83.69012

**ACTIVE** Facility Type: Facility ID: 00035507 Facility Region:

Owner Name: MT MORRIS SCHOOLS Owner Address: 12356 WALTER ST

Direction Distance

Elevation Site Database(s) EPA ID Number

## MT MORRIS CONSOLIDATED SCHOOLS (Continued)

**EDR ID Number** 

1000526786

Owner City: MOUNT MORRIS

Owner State: MI

48458-1749 Owner Zip: Owner Contact: Not reported Owner Phone: 8105913390 Steve Borrow Contact: Contact Phone: (810) 591-3390 Date of Collection: 10/05/2004 Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 3 Capacity: 2000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: Not reported Remove Date: 12/19/1991 UTK-057129-15 Tank Number: Tank Details Compartments: Not reported Not reported Tank Release Detection: Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Cathodically Protected Steel

Impressed Device: Not reported Latitude: 43.12397
Longitude: -83.69012

Facility Type: ACTIVE Facility ID: 00035507

Facility Region: 2

Owner Name: MT MORRIS SCHOOLS
Owner Address: 12356 WALTER ST
Owner City: MOUNT MORRIS

Owner State: MI

 Owner Zip:
 48458-1749

 Owner Contact:
 Not reported

 Owner Phone:
 8105913390

 Contact:
 Steve Borrow

 Contact Phone:
 (810) 591-3390

 Date of Collection:
 10/05/2004

 Accuracy:
 100

Horizontal Datum: NAD83 Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 2 Capacity: 4000

Tank Status: Removed from Ground

Direction Distance

Elevation Site Database(s) EPA ID Number

## MT MORRIS CONSOLIDATED SCHOOLS (Continued)

1000526786

**EDR ID Number** 

Substance: Gasoline Install Date: Not reported Remove Date: 12/19/1991 Tank Number: UTK-055380-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Not reported Pipe Release Detection: Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Cathodically Protected Steel

Impressed Device: Not reported Latitude: 43.12397 Longitude: -83.69012

Facility Type: ACTIVE Facility ID: 00035507

Facility Region: 2

Owner Name: MT MORRIS SCHOOLS
Owner Address: 12356 WALTER ST
Owner City: MOUNT MORRIS

Owner State: MI

48458-1749 Owner Zip: Owner Contact: Not reported 8105913390 Owner Phone: Contact: Steve Borrow Contact Phone: (810) 591-3390 10/05/2004 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83 **FEET** Accuracy Value Unit:

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 1 Capacity: 12000

Tank Status: Currently In Use

Substance: Diesel
Install Date: 01/01/1991
Remove Date: Not reported
Tank Number: UTK-037178-15
Tank Details Compartments: Not reported

Tank Release Detection: Automatic Tank Gauging, Interstital Monitoring Double Walled

Tank/Piping, Tank Tightness Testing

Pipe Release Detection: Automatic Line Leak Detectors, Interstitial Monitoring Double Walled

Piping,Line Tightness Testing,Other Double Walled,Flexible Piping

Piping Material: Double Walled, Flexible

Piping Type: Pressure (Remote)

Tank Construction: Asphalt Coated or Bare Steel, Composite (Steel With Fiberglass), Double Walled, Fiberglass Reinforce

Impressed Device: No
Latitude: 43.12397
Longitude: -83.69012

INVENTORY:

Bea Number: Not reported Township: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## MT MORRIS CONSOLIDATED SCHOOLS (Continued)

1000526786

District: Lansing Data Source: Part 213 Latitude: 43.12398 Longitude: -83.69012

FINANCIAL ASSURANCE 3:

MT MORRIS CONSOLIDATED SCHOOLS Name:

Address: 12356 WALTER ST

City, State, Zip: MOUNT MORRIS, MI 48458-1749

Facility ID: 00035507 Exempt: No

**Expiration Date:** 07/01/2015 **Bond Rating Tests:** Not reported CHECKED Commerical Insurance: Not reported Guarantee: Letter of Credit: Not reported Risk Retention Group: Not reported Self Insurance: Not reported State Funds: Not reported Surety Bond: Not reported Trust Funds: Not reported

WDS:

Site Id: MID052921079 WMD Id: 396095

Site Specific Name: MOUNT MORRIS CONSOLIDATED SCHOOLS

Mailing Address: 12356 WALTER ST

Mailing City/State/Zip: 48458 Mailing County: **GENESEE** 

X111 wsw **4221 JAMES P COLE BOULEVARD** 1/4-1/2 GENESEE (County), MI 48503

0.433 mi.

2288 ft. Site 1 of 2 in cluster X

INVENTORY: Actual: 751 ft.

Focus Map:

15

201802437LA Bea Number: Township: Flint District: Lansing

Data Source: BEA Latitude: Not reported Longitude: Not reported

200501014LA Bea Number:

Township: Flint District: Lansing Data Source: **BEA** Latitude: Not reported Longitude: Not reported

Bea Number: 200701227LA Township: Flint District: Lansing Data Source: BEA Latitude: Not reported Longitude: Not reported

MI INVENTORY

S114026452

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

X112 FLINT COATINGS INC MI BEA S107596698
WSW 4221 JAMES P COLE MI WDS N/A

1/4-1/2 FLINT, MI 48505

0.433 mi.

2288 ft. Site 2 of 2 in cluster X

Actual: BEA:

751 ft. Secondary Address: Not reported
Focus Map: BEA Number: 1014
District: Lansing

Date Received: 12/22/2005
Submitter Name: Lasalle Bank
Petition Determination: Affirmed
Petition Disclosure: 1

Category: No Hazardous Substance(s)

Determination 20107A: Affirmed Reviewer: innesj

Division Assigned: Environmental Response Division

Secondary Address: Not reported
BEA Number: 1227
District: Lansing
Date Received: 09/28/2007
Submitter Name: Thomas A Panek
Petition Determination: No Request

Petition Disclosure: 0

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: innesj

Division Assigned: Environmental Response Division

WDS:

Site Id: MID981796527 WMD Id: 400305

Site Specific Name: FLINT COATINGS INC
Mailing Address: 4221 JAMES P COLE BLVD

Mailing City/State/Zip: 48505
Mailing County: GENESEE

SUPERIOR MOTORS MI LUST S100425702
1226 E COLDWATER RD MI INVENTORY N/A

West 1226 E COLDWA 1/4-1/2 FLINT, MI 99999

0.483 mi. 2551 ft.

113

Actual: LUST:

**810 ft.** Facility ID: 50000559

Focus Map: Source: STATE OF MICHIGAN

10 Owner Name: Unknown Owner Address: Unknown

Owner City, St, Zip: Unknown, MI 99999
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Lansing

Site Name: Superior Motors, Tanks 3,5

Latitude: 43.09019 Longitude: -83.68568 Date of Collection: 01/11/2001 MI BEA

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **SUPERIOR MOTORS (Continued)**

S100425702

Method of Collection: Address Matching-House Number

100 Accuracy: Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT** 

Plant Entrance (Freight) Desc Category:

Leak Number: C-0675-90 Release Date: 04/18/1990 Substance Released: Not reported Release Status: Open Release Closed Date: Not reported

Leak Number: C-0815-90 Release Date: 05/08/1990 Substance Released: Not reported Release Status: Open Release Closed Date: Not reported

INVENTORY:

Bea Number: Not reported Township: Not reported Lansing District: Data Source: Part 213 Latitude: 43.0902 -83.68568 Longitude:

BEA:

Secondary Address: Not reported BEA Number: 63 District: Lansing Date Received: 09/12/1996

Submitter Name: McAndrew Properties

Petition Determination: Affirmed Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: Affirmed Reviewer: temppm

Division Assigned: Storage Tank Division

114 **MOBIL OIL** 

**ENE** 2427 PIERSON & CLIO FLINT, MI 48504 1/4-1/2

0.488 mi. 2579 ft.

Actual: LUST:

720 ft. 00016718 Facility ID:

STATE OF MICHIGAN Source: Focus Map: 14

Owner Name: Mobil Oil Corp Owner Address: 15565 Northland Dr Owner City,St,Zip: Southfield, MI 48034

Owner Contact: Not reported Owner Phone: Not reported Country: USA District: Lansing

Site Name: Mobil Oil, #04-ldj 43.06230 Latitude:

U004126832

N/A

MI LUST

MI UST

**MI INVENTORY** 

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

MOBIL OIL (Continued) U004126832

Longitude: -83.65968 Date of Collection: 01/12/1998

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 10 Accuracy Value Unit: **METERS** NAD83 Horizontal Data: POINT Point Line Area:

Desc Category: Plant Entrance (Freight)

Leak Number: C-0149-85 06/16/1986 Release Date: Substance Released: Not reported Release Status: Open Release Closed Date: Not reported

UST:

**CLOSED** Facility Type: Facility ID: 00016718 Facility Region:

MOBIL OIL CORP Owner Name: 15565 NORTHLAND DR Owner Address:

SOUTHFIELD Owner City:

Owner State: MI Owner Zip: 48034 Owner Contact: Not reported Owner Phone: Not reported Contact: Not reported

Contact Phone: ()-Date of Collection: 01/12/1998 Accuracy: 10 NAD83 Horizontal Datum: Accuracy Value Unit: **METERS** 

Source: STATE OF MICHIGAN

Point Line Area:

Plant Entrance (Freight) Desc Category:

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

Tank ID: Capacity:

10000 Removed from Ground Tank Status:

Substance: Gasoline Install Date: 04/21/1968 Remove Date: 02/20/1992 Tank Number: UTK-076539-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported

Pipe Release Detection: Other Piping Material: Galvanized Steel Piping Type: Not reported

Asphalt Coated or Bare Steel, Other Tank Construction:

Impressed Device: Not reported Latitude: 43.06230 Longitude: -83.65968

**CLOSED** Facility Type: Facility ID: 00016718

Facility Region:

MOBIL OIL CORP Owner Name:

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

**MOBIL OIL (Continued)** U004126832

Owner Address: 15565 NORTHLAND DR

SOUTHFIELD Owner City:

Owner State: MI 48034 Owner Zip: Owner Contact: Not reported Owner Phone: Not reported Contact: Not reported Contact Phone: ()-Date of Collection: 01/12/1998 Accuracy: 10 Horizontal Datum: NAD83

Accuracy Value Unit: STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

**METERS** 

District: Lansing District Office

Tank ID: Capacity: 8000

Removed from Ground Tank Status:

Substance: Gasoline Install Date: 04/21/1968 Remove Date: 02/20/1992 Tank Number: UTK-076535-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Other

Piping Material: Galvanized Steel Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel, Other

Not reported Impressed Device: Latitude: 43.06230 Longitude: -83.65968

**CLOSED** Facility Type: Facility ID: 00016718 Facility Region:

MOBIL OIL CORP Owner Name: 15565 NORTHLAND DR Owner Address:

SOUTHFIELD Owner City:

Owner State: MI 48034 Owner Zip: Owner Contact: Not reported Not reported Owner Phone: Contact: Not reported

Contact Phone: ()-

Date of Collection: 01/12/1998 Accuracy: 10

Horizontal Datum: NAD83 **METERS** Accuracy Value Unit:

STATE OF MICHIGAN Source:

Point Line Area:

Plant Entrance (Freight) Desc Category:

GPS Code Meas. Standard Positioning Service SA Off Method of Collection:

District: Lansing District Office

Tank ID: Capacity: 6000

Direction Distance

Elevation Site Database(s) EPA ID Number

MOBIL OIL (Continued) U004126832

Tank Status: Removed from Ground

Substance: Gasoline
Install Date: 04/21/1968
Remove Date: 02/20/1992
Tank Number: UTK-076529-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Other

Piping Material: Galvanized Steel
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel, Other

Impressed Device: Not reported Latitude: 43.06230 Longitude: -83.65968

Facility Type: CLOSED Facility ID: 00016718

Facility Region: 2

Owner Name: MOBIL OIL CORP
Owner Address: 15565 NORTHLAND DR

Owner City: SOUTHFIELD
Owner State: MI
Owner Zip: 48034
Owner Contact: Not reported
Owner Phone: Not reported
Contact: Not reported

Contact Phone: () Date of Collection: 01/12/1998
Accuracy: 10
Horizontal Datum: NAD83
Accuracy Value Unit: METERS

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

District: Lansing District Office

Tank ID: 1 Capacity: 550

Tank Status: Removed from Ground

Substance: Used Oil
Install Date: 04/21/1969
Remove Date: 02/20/1992
Tank Number: UTK-041531-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Other

Piping Material: Galvanized Steel
Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel, Other

Impressed Device: Not reported Latitude: 43.06230 Longitude: -83.65968

INVENTORY:

Bea Number: Not reported Township: Not reported District: Lansing

Direction Distance

Elevation Site Database(s) EPA ID Number

MOBIL OIL (Continued) U004126832

Data Source: Part 213
Latitude: 43.0623
Longitude: -83.65968

\_\_\_\_\_

 115
 CUT-RATE FUEL CO
 MI LUST
 U000253204

 SSE
 4043 N DORT HWY
 MI UST
 N/A

 1/4-1/2
 FLINT, MI 48506
 MI WDS

0.491 mi. 2591 ft.

**Actual:** LUST: **728 ft.** Facility ID: 00017040

Focus Map:
15 Source: STATE OF MICHIGAN
Owner Name: Dort Highway Inc
Owner Address: 94 E Walton Blvd
Owner City,St,Zip: Pontiac, MI 48340-1263

Owner Contact: Not reported Owner Phone: (734) 334-4757

Country: USA
District: Lansing
Site Name: Dort Hig

Site Name: Dort Highway, Inc.
Latitude: 43.05087
Longitude: -83.66346
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-0860-90
Release Date: 05/15/1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 12/28/1995

UST:

Facility Type: CLOSED Facility ID: 00017040

Facility Region: 2

Owner Name: DORT HIGHWAY INC
Owner Address: 94 E WALTON BLVD

Owner City: PONTIAC Owner State: MI

Owner Zip: 48340-1263 Owner Contact: Not reported Owner Phone: 7343344757 Contact: L. TREPECK (734) 334-4757 Contact Phone: Date of Collection: 01/11/2001 Accuracy: 100 Horizontal Datum: NAD83

Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Direction Distance

Elevation Site Database(s) EPA ID Number

## CUT-RATE FUEL CO (Continued)

U000253204

**EDR ID Number** 

District: Lansing District Office

 Tank ID:
 9

 Capacity:
 275

Tank Status: Removed from Ground

Substance: Used Oil Install Date: 04/22/1951 05/15/1990 Remove Date: UTK-057323-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.05087 Longitude: -83.66346

Facility Type: CLOSED Facility ID: 00017040

Facility Region: 2

Owner Name: DORT HIGHWAY INC
Owner Address: 94 E WALTON BLVD

 Owner City:
 PONTIAC

 Owner State:
 MI

 Owner Zip:
 48340-1263

 Owner Contact:
 Not reported

 Owner Phone:
 7343344757

 Contact:
 L. TREPECK

 Contact Phone:
 (734) 334-4757

 Date of Collection:
 01/11/2001

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 8
Capacity: 550

Tank Status: Removed from Ground

Substance: Diesel 04/22/1951 Install Date: 05/15/1990 Remove Date: UTK-040314-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Unknown Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.05087 Longitude: -83.66346

Facility Type: CLOSED

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **CUT-RATE FUEL CO (Continued)**

U000253204

Facility ID: 00017040

Facility Region: 2

Owner Name: DORT HIGHWAY INC Owner Address: 94 E WALTON BLVD

Owner City: **PONTIAC** Owner State:

48340-1263 Owner Zip: Owner Contact: Not reported Owner Phone: 7343344757 Contact: L. TREPECK Contact Phone: (734) 334-4757 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83

Accuracy Value Unit: **FEET** Source: STATE OF MICHIGAN

**POINT** Point Line Area:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Lansing District Office District:

Tank ID:

Capacity: 550

Tank Status: Removed from Ground

Substance: Diesel 04/22/1951 Install Date: Remove Date: 05/15/1990 Tank Number: UTK-047016-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported 43.05087 Latitude: Longitude: -83.66346

Facility Type: **CLOSED** Facility ID: 00017040

Facility Region:

DORT HIGHWAY INC Owner Name: Owner Address: 94 E WALTON BLVD

Owner City: **PONTIAC** Owner State:

Owner Zip: 48340-1263 Owner Contact: Not reported Owner Phone: 7343344757 Contact: L. TREPECK Contact Phone: (734) 334-4757 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Accuracy Value Unit:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**FEET** 

Direction Distance

Elevation Site Database(s) EPA ID Number

CUT-RATE FUEL CO (Continued)

District: Lansing District Office

Tank ID: 6 Capacity: 1000

Tank Status: Removed from Ground Substance: Other(FUEL OIL) Install Date: 04/22/1951 05/15/1990 Remove Date: UTK-057310-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device:Not reportedLatitude:43.05087Longitude:-83.66346

Facility Type: CLOSED Facility ID: 00017040

Facility Region: 2

Owner Name: DORT HIGHWAY INC
Owner Address: 94 E WALTON BLVD

 Owner City:
 PONTIAC

 Owner State:
 MI

 Owner Zip:
 48340-1263

 Owner Contact:
 Not reported

 Owner Phone:
 7343344757

 Contact:
 L. TREPECK

 Contact Phone:
 (734) 334-4757

 Date of Collection:
 01/11/2001

Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

District: Lansing District Office

Tank ID: 5 Capacity: 6000

Tank Status: Removed from Ground

Substance: Diesel 04/22/1951 Install Date: 05/15/1990 Remove Date: UTK-003228-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Unknown Piping Material: Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported Latitude: 43.05087 Longitude: -83.66346

Facility Type: CLOSED

**EDR ID Number** 

U000253204

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**CUT-RATE FUEL CO (Continued)** 

Accuracy Value Unit:

U000253204

Facility ID: 00017040

Facility Region: 2

Owner Name: DORT HIGHWAY INC Owner Address: 94 E WALTON BLVD

Owner City: **PONTIAC** Owner State:

48340-1263 Owner Zip: Owner Contact: Not reported Owner Phone: 7343344757 Contact: L. TREPECK Contact Phone: (734) 334-4757 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

**POINT** Point Line Area:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

**FEET** 

Lansing District Office District:

Tank ID: 4 Capacity: 6000

Tank Status: Removed from Ground

Substance: Diesel 04/22/1951 Install Date: Remove Date: 05/15/1990 Tank Number: UTK-057303-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Asphalt Coated or Bare Steel

Impressed Device: Not reported 43.05087 Latitude: Longitude: -83.66346

Facility Type: **CLOSED** Facility ID: 00017040

Facility Region:

DORT HIGHWAY INC Owner Name: Owner Address: 94 E WALTON BLVD

Owner City: **PONTIAC** Owner State:

Owner Zip: 48340-1263 Owner Contact: Not reported Owner Phone: 7343344757 Contact: L. TREPECK Contact Phone: (734) 334-4757 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **CUT-RATE FUEL CO (Continued)**

U000253204

District: Lansing District Office

Tank ID: 3 Capacity: 6000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 04/22/1951 05/15/1990 Remove Date: Tank Number: UTK-057298-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Fiberglass Reinforced Plastic

Impressed Device: Not reported Latitude: 43.05087 Longitude: -83.66346

Facility Type: **CLOSED** Facility ID: 00017040

Facility Region:

Owner Name: DORT HIGHWAY INC Owner Address: 94 E WALTON BLVD

Owner City: **PONTIAC** Owner State: Owner Zip: 48340-1263 Owner Contact: Not reported Owner Phone: 7343344757 L. TREPECK Contact: Contact Phone: (734) 334-4757 Date of Collection: 01/11/2001

Accuracy: 100 Horizontal Datum: NAD83 Accuracy Value Unit: **FEET** 

STATE OF MICHIGAN Source:

**POINT** Point Line Area:

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Lansing District Office District:

Tank ID: 2 Capacity: 6000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 04/22/1951 05/15/1990 Remove Date: UTK-057293-15 Tank Number: Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Unknown Piping Material: Piping Type: Not reported

Tank Construction: Fiberglass Reinforced Plastic

Impressed Device: Not reported Latitude: 43.05087 Longitude: -83.66346

Facility Type: **CLOSED** 

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**CUT-RATE FUEL CO (Continued)** 

U000253204

Facility ID: 00017040

Facility Region: 2

Owner Name: DORT HIGHWAY INC Owner Address: 94 E WALTON BLVD

Owner City: **PONTIAC** Owner State:

48340-1263 Owner Zip: Owner Contact: Not reported Owner Phone: 7343344757 Contact: L. TREPECK Contact Phone: (734) 334-4757 01/11/2001 Date of Collection: Accuracy: 100 Horizontal Datum: NAD83

Accuracy Value Unit: **FEET** Source: STATE OF MICHIGAN

Point Line Area: **POINT** 

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Lansing District Office District:

Tank ID:

Capacity: 6000

Tank Status: Removed from Ground

Substance: Gasoline Install Date: 04/22/1951 Remove Date: 05/15/1990 Tank Number: UTK-032774-15 Tank Details Compartments: Not reported Tank Release Detection: Not reported Pipe Release Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Tank Construction: Fiberglass Reinforced Plastic

Impressed Device: Not reported 43.05087 Latitude: -83.66346 Longitude:

WDS:

MID985579945 Site Id: WMD Id: 402866

Site Specific Name: DORT HIGHWAY INC FINE CAR CORNERS

Mailing Address: 94 E WALTON BLVD

Mailing City/State/Zip: 48340 Mailing County: OAKLAND

116 SE CORNER STEWART/J.P.COLE BLVD. SE CORNER STEWART/J.P.COLE BLVD. SW

1/2-1 FLINT, MI 48505

0.538 mi. 2843 ft.

Actual: INVENTORY:

751 ft. Bea Number: Not reported Township: Flint Focus Map: District: Lansing

Data Source: Part 201 43.05329 Latitude:

S102721004

N/A

MI INVENTORY

MI PART 201

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

#### SE CORNER STEWART/J.P.COLE BLVD. (Continued)

S102721004

N/A

Longitude: -83.67826

PART 201:

Facility ID: 25000676

Facility Status: Inactive - no actions taken to address contamination

Source: Auto Dealer & Service Stations

SAM Score: 37

 SAM Score Date:
 04/05/2004

 Township:
 08N

 Range:
 06E

 Section:
 31

 Quarter:
 Not reported

Quarter/Quarter: Not reported

Not reported

Pollutants: As; Benzene; Ethylbenzene; PCE; Toluene; Xylenes

117 ZACK CO/DEMO DUMP (FRMR) MI PART 201 S104911064

ESE 4401 WESTERN ROAD MI INVENTORY
1/2-1 FLINT, MI 48506 MI BEA
0.634 mi. MI WDS

3345 ft.

Actual: PART 201: 734 ft. Facility ID:

734 ft. Facility ID: 25000352

Focus Map: Facility Status: Inactive - no actions taken to address contamination

16 Source: Fabricated Metal Products

SAM Score: 32
SAM Score Date: 04/15/2004
Township: 08N
Range: 07E
Section: 32

Quarter: NE Quarter/Quarter: SE

Pollutants: Benzo(a)pyrene; Pb; PCB's; PCE

INVENTORY:

Bea Number: Not reported Township: Flint Lansing Data Source: Part 201 Latitude: 43.05549 Longitude: -83.65836

BEA:

Secondary Address: Not reported

BEA Number: 350
District: Lansing
Date Received: 05/06/1999

Submitter Name: Professional Enterprises, Inc.

Petition Determination: No Request

Petition Disclosure: 0

Category: Different Hazardous Substance(s)

Determination 20107A: No Request Reviewer: tempom

Division Assigned: Environmental Response Division

Secondary Address: Not reported

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# ZACK CO/DEMO DUMP (FRMR) (Continued)

S104911064

BEA Number: 355 District: Lansing Date Received: 05/06/1999

Submitter Name: Professional Enterprises, Inc.

Petition Determination: No Request

Petition Disclosure:

Category: Different Hazardous Substance(s)

Determination 20107A: No Request Reviewer: temppm

Division Assigned: **Environmental Response Division** 

Secondary Address: Not reported BEA Number: 790 District: Lansing Date Received: 12/11/2003

Citizen's Banking Corporation Submitter Name:

Petition Determination: Affirmed Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: innesj

Division Assigned: **Environmental Response Division** 

WDS:

Site Id: MID002975225 WMD Id: 392929 Site Specific Name: ZACK CO

Mailing Address: 255 E BROWN ST

Mailing City/State/Zip: 48009 OAKLAND Mailing County:

118 **PRO-MET PLATING** wsw 1117 & 1109 EAST STEWART 1/2-1

FLINT, MI 48505

0.763 mi. 4030 ft.

Actual: **BROWNFIELDS:** 

755 ft. Facility ID: Not reported

Region: Focus Map:

15 Status: Not reported Properry Use: Not reported

BEA: No Ernie Id Number: 25000300

PART 201:

Facility ID: 25000300

Facility Status: Interim Response conducted Source: **Primary Metal Industries** 

SAM Score: SAM Score Date: 07/29/2004 Township: 08N Range: 07E Section: 31 Quarter: NW Quarter/Quarter: SE

Pollutants: 1,2 DCP; As; Cr+6; CN; Pb; Naphthalene; Ni; Phenanthrene; TCE; S108417413

N/A

MI BROWNFIELDS

MI PART 201

MI INVENTORY

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **PRO-MET PLATING (Continued)**

S108417413

Xylenes; DCEE

INVENTORY:

Bea Number: Not reported Township: Flint District: Lansing Part 201 Data Source: 43.05434 Latitude: Longitude: -83.68386

119 2601-2603 RICHFIELD ROAD MI PART 201 S102720999 2601-2603 RICHFIELD ROAD SE **MI INVENTORY** N/A FLINT, MI 48506 1/2-1 MI BEA

0.763 mi. 4030 ft.

Actual: PART 201:

760 ft. Facility ID: 25000655

**Facility Status:** Inactive - no actions taken to address contamination Focus Map:

16

Source: Unknown SAM Score: 19 SAM Score Date: 05/12/2004 Township: 07N Range: 07E Section: 32

Quarter: Not reported Quarter/Quarter: Not reported

Pollutants: As

INVENTORY:

Bea Number: Not reported Township: Flint District: Lansing Data Source: Part 201 Latitude: 43.05199 Longitude: -83.65695

BEA:

Secondary Address: Not reported BEA Number: 18 District: Lansing 04/22/1996 Date Received:

Submitter Name: Flint Auto Auction, Inc.

Petition Determination: Affirmed Petition Disclosure:

Category:

No Hazardous Substance(s)

Determination 20107A: Affirmed Reviewer: temppm

Division Assigned: **Environmental Response Division**  Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

 120
 BRAY ROAD DUMP
 MI INVENTORY
 \$103095197

 East
 BRAY ROAD
 MI PART 201
 N/A

1/2-1 FLINT, MI 48505 0.802 mi. 4233 ft.

Actual: INVENTORY:

730 ft. Bea Number: Not reported temptownship

11 District: Lansing

Part 201

Data Source: Part 201 Latitude: 43.0825 Longitude: -83.65502

PART 201:

Facility ID: 25000320

Facility Status: Interim Response in progress

Source: Primary Metal Industries

SAM Score: 28

 SAM Score Date:
 03/08/2004

 Township:
 08N

 Range:
 07E

 Section:
 21

 Quarter:
 NW

 Quarter/Quarter:
 NW

Pollutants: Cd; Zn; Landfill

Count: 202 records ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLIO	1007100056	RYDER	175 & FRANCES RD	48420	RCRA NonGen / NLR
CLIO	1007143073	RYDER	175 & FRANCES RD	48420	FINDS, ECHO
CLIO	S111975257		175 & FRANCES RD		MI WDS
FLINT	1024886421	GENESEE COUNTY	CARPENTER ROAD OVER THE FLINT	48506	RCRA-LQG
FLINT	1016453600	CITY OF FLINT	E STEWART AVE OVER THE C&O RAI	48505	RCRA-CESQG, FINDS, ECHO
FLINT	1014392801	CONSUMERS ENERGY COMPANY	7185 E CARPENTER RD	48506	RCRA-CESQG
FLINT	1012180643	MI DEPT/TRANSPORTATION	I 475 UNDER COLDWATER RD	48505	RCRA-CESQG
FLINT	1010319910	AIRGAS GREAT LAKES INC	G5075 N DORT HWY	48505	RCRA-CESQG
FLINT	2011969677		1440 COLDWATER ROAD		ERNS
FLINT	99487738		G5145 NORTH DORT HWY	48505	ERNS
FLINT	2014090685		DORT HIGHWAY		ERNS
FLINT	2014073725		DORT HIGHWAY		ERNS
FLINT	95309364		G5273 NORTH DORT HWY		ERNS
FLINT	2018233580		5167 DORT HIGHWAY		ERNS
FLINT	2018226056		DORT HIGHWAY M54		ERNS
FLINT	2011994460		DORT HIGHWAY		ERNS
FLINT	S110532233	VACANT LOT E STEWART	E STEWART		MI BROWNFIELDS
FLINT	S116602749	GENESEE RECYCLING INDUSTRY	G-5107 NORTH DORT HIGHWAY	48505	MI SWRCY
FLINT		FLINT DRUMS	331 LORADO STREET		MI PART 201
FLINT	S123825744		N 5452 DORT HWY	48505	MI CDL
FLINT	S123336837		DORT HWY		MI CDL
FLINT	S123336848		DORT HWY		MI CDL
FLINT	S123825694		MITCHELL ST DORT HWY		MI CDL
FLINT	S123339813		DORT HWY		MI CDL
FLINT	S123825567		FENTON RD DORT HWY		MI CDL
FLINT	9005035606		CARPENTER RD		HMIRS
FLINT	9005035607		CARPENTER RD		HMIRS
FLINT	90050636		CARPENTER RD		HMIRS
FLINT	90050637		CARPENTER RD		HMIRS
FLINT	90050638		CARPENTER RD		HMIRS
FLINT	90050639		CARPENTER RD		HMIRS
FLINT	90050644		CARPENTER RD		HMIRS
FLINT	90060380		CARPENTER ROAD		HMIRS
FLINT	90090623		EAST CARPENTER RD		HMIRS
FLINT	2000021803		CARPENTER RD		HMIRS
FLINT	2000021804		CARPENTER RD		HMIRS
FLINT	2000022178		CARPENTER RD		HMIRS
FLINT	2000022179		CARPENTER RD		HMIRS
FLINT	2000021693		CARPENTER RD		HMIRS
FLINT	2000021694		CARPENTER RD		HMIRS
FLINT	2000021695		CARPENTER RD		HMIRS
FLINT	2000021696		CARPENTER RD		HMIRS
FLINT	2000021697		CARPENTER RD		HMIRS

ORPHAN SUMMARY

Count: 202 records

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FLINT	2000021698		CARPENTER RD		HMIRS
FLINT	2000021699		CARPENTER RD		HMIRS
FLINT	2000021700		CARPENTER RD		HMIRS
FLINT	20014462		DORT HWY		HMIRS
FLINT	S105976219		GENERAL MOTORS PLANT ON STEWART ST.		MI SPILLS
FLINT	S105978881		BUICK STEWART SUBSTATION AT 4401 APPEONY		MI SPILLS
FLINT	S109257728	EDWARD COOK/CSX TRANSPORTATION	1440 COLDWATER RD.		MI SPILLS
FLINT	S105978877		GENESEE ROAD BETWEEN CARPENTER AND COLDWATER		MI SPILLS
FLINT	S105975650		RAIL YARD OFF COLDWATER RD.		MI SPILLS
FLINT	S119761220		S DORT HWY AND I-69		MI SPILLS
FLINT	S111342501		DORT		MI SPILLS
FLINT	S112199583		NORTH DORT HIGHWAY		MI SPILLS
FLINT	S115950255		G-5340 N DORT HWY		MI SPILLS
FLINT	S119011256		5340 DORT HWY		MI SPILLS
FLINT	S120853887		G3111 S DORT HWY		MI SPILLS
FLINT	S105979202		G 5310 NORTH DORT HIGHWAY		MI SPILLS
FLINT	S105975077		CSX RAIL YARD, EAST SIDE OF DORT BETWEEN PEARSONS &		MI SPILLS
			STEWART		
FLINT	1007097149	MI DEPT/NATURAL RESOURCES AND ENVIRONMENT	S B I 475-1/2 MILE N DORT HWY	48506	RCRA NonGen / NLR
FLINT	1007264493	BUCKEYE PIPELINE CO LP	G5388 N DORT HWY	48505	RCRA NonGen / NLR
FLINT	1019900598	GENESEE POWER STATION	G-5310 N DORT HWY	48505	RCRA NonGen / NLR, FINDS, ECHO
FLINT	1014393132	SLC ACQUISITION LLC	G5107 N DORT HWY	48505	RCRA NonGen / NLR
FLINT	1007100538	MI DEPT/NATURAL RESOURCES AND ENVIRONMENT	GROVELAND AVE NEAR N DORT	48505	RCRA NonGen / NLR
FLINT	1007096961	NORTH CEN CO-OP TRUCKING	OFF RAMP TO DORT FR I-69 W	48505	RCRA NonGen / NLR
FLINT	1007100103	LEEMON OIL CO	G5150 N DORT HWY	48505	RCRA NonGen / NLR
FLINT	1007098163	CSX	OFF RAMP TO DORT FR I-69 W	48505	RCRA NonGen / NLR
FLINT	1011604103	AIRGAS GREAT LAKES	G5075 NORTH DORT HIGHWAY	48505	ICIS
FLINT	1010454083	BUCKEYE TERMINALS, LLC - FLINT TERMINAL	G-5340 N DORT HWY	48505	US AIRS
FLINT	1025466448	GENESEE COUNTY	CARPENTER ROAD OVER THE FLINT	48506	FINDS
FLINT	1007218130	MI DEPT/NATURAL RESOURCES AND ENVIRONMENT	S B I 475-1/2 MILE N DORT HWY	48506	FINDS, ECHO
FLINT	1016229363	MI DEPT/TRANSPORTATION	I 75 UNDER CARPENTER RD	48505	FINDS, ECHO
FLINT	1016229364	MI DEPT/TRANSPORTATION	I 75 UNDER COLDWATER ROAD	48505	FINDS, ECHO
FLINT	1016193391	MOONEY OIL CORP	G2288 W COLDWATER	48505	FINDS, ECHO
FLINT	1007483948	BUCKEYE PIPELINE CO LP	G5388 N DORT HWY	48505	FINDS, ECHO
FLINT	1008928382	AIRGAS GREAT LAKES	G5075 NORTH DORT HIGHWAY	48505	FINDS, ECHO
FLINT		SLC ACQUISITION LLC	G5107 N DORT HWY		FINDS, ECHO
FLINT		ROBERT S YOUNG	6-5305 N DORT HWY		FINDS
FLINT	1023535231	GENESEE POWER STATION	G-5310 N. DORT HWY	48505	FINDS
FLINT	1016193232	RELIABLE METAL STAMPINGS	G5522 N DORT HWY		FINDS, ECHO
FLINT	1016193266	YOUNGS ENVIRONMENTAL CLEANUP INC	G5305 N DORT HWY		FINDS, ECHO
FLINT		EXXONMOBIL TERMINAL	G 5340 N. DORT HIGHWAY		FINDS
FLINT		LEEMON OIL CO	G5150 N DORT HWY		FINDS, ECHO
FLINT	1007135009		OFF RAMP TO DORT FR I-69 W		FINDS, ECHO
FLINT		NORTH CEN CO-OP TRUCKING	OFF RAMP TO DORT FR I-69 W		FINDS, ECHO
FLINT		GENESEE COUNTY	CARPENTER ROAD OVER THE FLINT	48506	ECHO
FLINT		R. J. INDUSTRIAL/ R. J. TORCHING	G-5167 NORTH DORT HIGHWAY	48505	
FLINT	S110531239	MID-MICHIGAN RECYCLING	G5310 N DORT HIGHWAY	48505	MI AIRS

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FLINT	S123199315	WEBER SAND & GRAVEL, INC	G5172 N DORT HIGHWAY	48505	MI AIRS
FLINT	S121715596	MOBIL OIL CORPORATION	G5340 N DORT HIGHWAY	48505	MI AIRS
FLINT	S121715595	EXONMOBIL OIL CORPORATION	G5340 N DORT HIGHWAY	48505	MI AIRS
FLINT	S107701720	AMOCO OIL COMPANY	G5340 N DORT HIGHWAY.	48505	MI AIRS
FLINT	S121715833	KURTZ GRAVEL COMPANY	G5300 N DORT HIGHWAY	48505	MI AIRS
FLINT	S121719360	GENESEE POWER STATION LP	G5310 N DORT HIGHWAY	48505	MI AIRS
FLINT	S121719361	GENESEE POWER STATION, LTD	G5310 N DORT HIGHWAY	48505	MI AIRS
FLINT	S110531600	SHELL OIL COMPANY	G5340 N DORT HIGHWAY	48505	MI AIRS
FLINT	S111141889	TOTAL PETROLEUM, INC	G5340 N DORT HIGHWAY	48505	MI AIRS
FLINT	S121717865	GENERAL IRON & METAL	G5200 N DORT HIGHWAY	48505	MI AIRS
FLINT	S107700060	RELIABLE METAL STAMPINGS	G5522 N DORT HIGHWAY	48505	MI AIRS
FLINT	S109956810	BUCKEYE TERMINALS, LLC	G5340 N DORT HIGHWAY	48505	MI AIRS
FLINT	S119788237	RESIDENCE	117 BALTIMORE BOULEVARD	48505	MI ASBESTOS
FLINT	S123641936	CARPENTER ROAD BRIDGE OVER FLINT RI	3000 CARPENTER ROAD	48505	MI ASBESTOS
FLINT	S123497908	NORTHWESTERN HIGH SCHOOL	G-2138 WEST CARPENTER ROAD	48505	MI ASBESTOS
FLINT	S104910079	S.E. CORNER STEWART AVE. & JAMES P. COLE	S.E. CORNER STEWART AVE. & JAMES P. COLE		MI BEA
FLINT	S111120983	G-5273 NORTH DORT HIGHWAY	G-5273 NORTH DORT HIGHWAY	48505	MI BEA
FLINT	S108895939	G-5150 NORTH DORT HIGHWAY	G-5150 NORTH DORT HIGHWAY	48505	MI BEA
FLINT	S104911368	RAILROAD RIGHT-OF-WAY (FORMER)	NE OF DORT HWY & R.T. LONGWAY BLVD.		MI BEA
FLINT	S108084417	PARCEL 07-32-102-001 & 07-32-102-003	NORTH DORT HIGHWAY		MI BEA
FLINT	S108414434	5000, 5022, AND 5030 NORTH DORT HIGHWAY	5000, 5022, AND 5030 NORTH DORT HIGHWAY		MI BEA
FLINT	S108895850	0.619 ACRES NE CORNER OF N.DORT HWY/DAVI	NE CORNER OF N.DORT HWY/DAVISON ROAD		MI BEA
FLINT	S108895865	2.7 ACRES NE CORNER N. DORT HWY/DAVISON	NE CORNER N. DORT HWY/DAVISON ROAD		MI BEA
FLINT	S104911551	G-5107 NORTH DORT HWY.	G-5107 NORTH DORT HWY.		MI BEA
FLINT	S108895881	3701 AND 3751 S. DORT HWY	3701 & 3751 S. DORT HWY		MI BEA
FLINT	S117978085	GREAT GIANT LAUNDRY	G5180 NORTH SAGINAW	48505	MI DRYCLEANERS
FLINT	S111971022	MI DEPT/NATURAL RESOURCES AND ENVIRONMENT	W BOULEVARD DR	48505	MI WDS
FLINT	S115951386	CITY OF FLINT	E STEWART AVE OVER THE C&O RAILROAD	48505	MI WDS
FLINT	S118471528	GENESEE COUNTY PARKS	W OF N CENTER 3/4 MILE S OF E COLDWATER	48506	MI WDS
FLINT	S111975374	MI DEPT/NATURAL RESOURCES AND ENVIRONMENT	S B I 475-1/2 MILE N DORT HWY	48506	MI WDS
FLINT	S111983912	CONSUMERS ENERGY COMPANY	7185 E CARPENTER RD	48506	MI WDS
FLINT	S123643450	GENESEE COUNTY	CARPENTER ROAD OVER THE FLINT RIVER	48506	MI WDS
FLINT	S111974072	TOM BELFORD JR DDS	G2432 W CARPENTER RD	48505	MI WDS
FLINT		MI DEPT/TRANSPORTATION	I 475 UNDER COLDWATER RD	48505	MI WDS
FLINT	S111964126	FLINT SCHOOLS	G2040 W CARPENTER RD	48505	MI WDS
FLINT	S111956690	BTEXPRESS	G2811 COLDWATER ROAD	48505	MI WDS
FLINT	S111978855	PARKERS PROPANE GAS COMPANY	G1447 E CARPENTER RD	48505	MI WDS
FLINT		MI DEPT/TRANSPORTATION	I 75 UNDER CARPENTER RD		MI WDS
FLINT	S111944279	MI DEPT/TRANSPORTATION	I 75 UNDER COLDWATER ROAD	48505	MI WDS
FLINT	S111953989	VIC BONDS SALES	1240 COLDWATER RD	48505	MI WDS
FLINT	S111133129	SUPERIOR MATERIALS LLC	G5300 N DORT HWY	48505	MI WDS
FLINT	S111135717	BUCKEYE TERMINALS LLC	G5340 N DORT HWY	48505	MI WDS
FLINT		OLIE WATKINS	2176 E. STANLEY ROAD		MI WDS
FLINT		NORTH CEN CO-OP TRUCKING	OFF RAMP TO DORT FR I-69 W		MI WDS
FLINT	S111974498		OFF RAMP TO DORT FR I-69 W		MI WDS
FLINT			G5075 N DORT HWY		MI WDS
FLINT		HIGHWAY MOBILE HOME COURT	G5182 N DORT HWY		MI WDS
	3111000021			19909	

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FLINT	S111983985	SLC ACQUISITION LLC	G5107 N DORT HWY	48505	MI WDS
FLINT	S111972964	MI DEPT/NATURAL RESOURCES AND ENVIRONMENT	GROVELAND AVE NEAR N DORT	48505	MI WDS
FLINT	S111973190	RENO AUTO PARTS INC	G5273 N DORT HWY	48505	MI WDS
FLINT	S111960681	YOUNGS FUEL EQUIPMENT	G5339 N DORT HWY	48505	MI WDS
FLINT	S111961402	BUCKEYE PIPELINE CO LP	G5388 N DORT HWY	48505	MI WDS
FLINT	S111934945	RELIABLE METAL STAMPINGS	G5522 N DORT HWY	48505	MI WDS
FLINT	S107700804	GENESEE POWER STATION	G-5310 N DORT HWY	48505	MI WDS
FLINT	S110484447	D & W AUTO PARTS	G5009 N DORT HWY	48505	MI WDS
FLINT	S110485740	KIND CHRIS	G5222 N DORT HWY	48505	MI WDS
GENESEE COUNTY	S114024747	2851 JAMES P. COLE BOULEVARD	2851 JAMES P. COLE BOULEVARD		MI INVENTORY
GENESEE COUNTY	S114038396	S.E. CORNER STEWART AVE. & JAMES P. COLE	S.E. CORNER STEWART AVE. & JAMES P. COLE		MI INVENTORY
GENESEE COUNTY	S114022505	1226 E. COLDWATER ROAD	1226 E. COLDWATER ROAD		MI INVENTORY
GENESEE COUNTY	S114035194	G-5150 NORTH DORT HIGHWAY	G-5150 NORTH DORT HIGHWAY	48505	MI INVENTORY
GENESEE COUNTY	S122898836	MIKE'S AUTO PARTS	3650 N. DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114023508	2.7 ACRES NE CORNER N. DORT HWY/DAVISON	NE CORNER N. DORT HWY/DAVISON ROAD AND DAVISON ROAD		MI INVENTORY
GENESEE COUNTY	S114023636	2010 NORTH DORT HWY, PARCEL B	2010 NORTH DORT HWY		MI INVENTORY
GENESEE COUNTY	S114027826	5443 S. DORT HWY.	5443 S. DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114023705	2060 S. DORT HWY.	2060 S. DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114023789	2102 S. DORT HWY.	2102 S. DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114029382	6312 NORTH DORT HIGHWAY	6312 NORTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114024512	27.06 ACRES OF VACANT LAND	27.06 ACRES OF VACANT LAND LOCATED SE OF THE INTERSECTION OF EDWARD ST & DORT HWY		MI INVENTORY
GENESEE COUNTY	S114030071	7365 N. DORT HIGHWAY	7365 N. DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114030670	810 SOUTH DORT HIGHWAY	810 S. DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114021737	0.619 ACRES NE CORNER OF N.DORT HWY/DAVI	NE CORNER OF N.DORT HWY/DAVISON ROAD		MI INVENTORY
GENESEE COUNTY	S114021869	10098 NORTH DORT HIGHWAY	10098 NORTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114025394	3302 S. DORT HIGHWAY	3302 S. DORT HWY		MI INVENTORY
GENESEE COUNTY	S114025395	3302 SOUTH DORT HIGHWAY	3302 SOUTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114032145	902 SOUTH DORT HIGHWAY	902 SOUTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114026076	4012 NORTH DORT HIGHWAY	4012 N. DORT		MI INVENTORY
GENESEE COUNTY	S114022858	1419 N. DORT HWY.	1419 N. DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114023031	1512 AND 1514 S. DORT HWY.	1512 AND 1514 S. DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114023273	1733 N. DORT HIGHWAY	1733 N. DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114023343	1801 S. DORT HIGHWAY	1801 S. DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114027585	5130 AND 5122 NORTH DORT HIGHWAY	5130 AND 5122 NORTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114027600	5167 NORTH DORT HIGHWAY	5167 NORTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114037510	PARCEL 07-32-102-001 & 07-32-102-003	NORTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114033648	COMPLETE RECYCLING PROPERTY	3800 NORTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114033707	COURT PLAZA	915 S. DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114038068	RAILROAD RIGHT-OF-WAY (FORMER)	NE OF DORT HWY & R.T. LONGWAY BLVD.		MI INVENTORY
GENESEE COUNTY	S114034392	FLINT MEMORIAL PARK	9506 NORTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114035177	G-3509 SOUTH DORT HIGHWAY	G-3509 SOUTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114035188	G-5107 NORTH DORT HIGHWAY	(SLC GENESEE RECYCLING INDUSTRIES) G-5107 N. DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114035190	G-5107 NORTH DORT HWY.	G-5107 NORTH DORT HWY.		MI INVENTORY
GENESEE COUNTY	S114035193	G-5150 DORT HIGHWAY	G-5150 DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114035198	G-5395 NORTH DORT HIGHWAY	G-5395 NORTH DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114035206	G-8010 NORTH DORT HIGHWAY	G-8010 NORTH DORT HIGHWAY		MI INVENTORY

Count: 202 records ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GENESEE COUNTY	S114025683	3701 AND 3751 S. DORT HIGHWAY	3701 AND 3751 S. DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S114025684	3701 AND 3751 S. DORT HWY	3701 & 3751 S. DORT HWY		MI INVENTORY
GENESEE COUNTY	S114026521	4315 & 4349 S. DORT HIGHWAY	4315 & 4349 S. DORT HIGHWAY		MI INVENTORY
GENESEE COUNTY	S105975755		WEBSTER AND WILSON		MI SPILLS
GENESEE COUNTY	S123341273		G-5340 N DORT HWY		MI SPILLS
GENESSEE TOWNSHIP	S119008885	BUCKEYE PIPE LINE COMPANY LP FLINT STATION	G5833 NORTH DORT HIGHWAY	48505	MI AUL
GENESSEE TOWNSHIP	S119008886	BUCKEYE TERMINAL FLINT	G5340 N DORT HWY	48505	MI AUL
MOUNT MORRIS	1012211366	MI DEPT/TRANSPORTATION	I 75 UNDER STANLEY RD	48458	RCRA-CESQG
MOUNT MORRIS	2014073239		G6190 N DORT HWY		ERNS
MOUNT MORRIS	1000390309	CONSUMERS ENERGY CO	STANLEY RD	48458	RCRA NonGen / NLR
MOUNT MORRIS	1007095909	MARK SANCHO	NB I 75 AT MOUNT MORRIS RD	48458	RCRA NonGen / NLR
MOUNT MORRIS	1016274261	CONSUMERS ENERGY CO	STANLEY RD	48458	FINDS, ECHO
MOUNT MORRIS	1007133152	MARK SANCHO	NB I 75 AT MOUNT MORRIS RD	48458	FINDS, ECHO
MOUNT MORRIS	S119789526	RESIDENCE	1472 WEST CARPENTER ROAD	48458	MI ASBESTOS
MOUNT MORRIS	S111982582	MI DEPT/TRANSPORTATION	I 75 UNDER STANLEY RD	48458	MI WDS
MOUNT MORRIS	S111951437	MI DEPT/NATURAL RESOURCES AND ENVIRONMENT	STANLEY RD WEST OF LINDEN	48458	MI WDS
MOUNT MORRIS	S111975759	QUICK-SAV FOOD STORES LTD	STANLEY & SAGINAW	48458	MI WDS
MOUNT MORRIS	S111936752	CONSUMERS ENERGY CO	STANLEY RD	48458	MI WDS
MOUNT MORRIS	S111974506	MARK SANCHO	NB I 75 AT MOUNT MORRIS RD	48458	MI WDS
MOUNT MORRIS	S111958564	SCHNEIDER INTERNATIONAL	I 75, EXIT MOUNT MORRIS RD	48458	MI WDS

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.

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: 07/19/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 35

Source: EPA Telephone: N/A

EPA Region 6

Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 10/14/2019 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 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 **EPA Region 8** 

Telephone 404-562-8033 Telephone: 303-312-6774

**EPA Region 5 EPA Region 9** 

Telephone 312-886-6686 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: 07/19/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 35

Source: EPA Telephone: N/A

Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Quarterly

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: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

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: 07/19/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 35

Source: EPA Telephone: N/A

Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 07/03/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/19/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 35

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 10/28/2019 Data Release Frequency: Quarterly

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019

Number of Days to Update: 35

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 10/28/2019 Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 Data Release Frequency: Quarterly

## RCRA-TSDF: RCRA - Treatment, 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 Data Release Frequency: Quarterly

## 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: 08/13/2019 Date Data Arrived at EDR: 08/20/2019 Date Made Active in Reports: 08/26/2019

Number of Days to Update: 6

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 08/07/2019

Next Scheduled EDR Contact: 11/25/2019 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: 08/19/2019 Date Data Arrived at EDR: 08/20/2019 Date Made Active in Reports: 08/26/2019

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 08/20/2019

Next Scheduled EDR Contact: 12/09/2019 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: 08/19/2019 Date Data Arrived at EDR: 08/20/2019 Date Made Active in Reports: 08/26/2019

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 08/20/2019

Next Scheduled EDR Contact: 12/09/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 36

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 Data Release Frequency: Quarterly

## STANDARD ENVIRONMENTAL RECORDS

#### State- and tribal - equivalent CERCLIS

MI SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list. This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

Date of Government Version: N/A
Date Data Arrived at EDR: 10/31/2013
Date Made Active in Reports: 11/20/2013

Number of Days to Update: 20

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-284-5103 Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

## State and tribal landfill and/or solid waste disposal site lists

# MI 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: 06/24/2019 Date Data Arrived at EDR: 06/26/2019 Date Made Active in Reports: 07/31/2019

Number of Days to Update: 35

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-335-4035 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 Data Release Frequency: Semi-Annually

# State and tribal leaking storage tank lists

MI 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: 05/03/2019 Date Data Arrived at EDR: 05/14/2019 Date Made Active in Reports: 06/05/2019

Number of Days to Update: 22

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-9837 Last EDR Contact: 08/13/2019

Next Scheduled EDR Contact: 11/25/2019 Data Release Frequency: Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

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: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017

Number of Days to Update: 136

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 08/26/2019

Next Scheduled EDR Contact: 10/21/2019 Data Release Frequency: Varies

## State and tribal registered storage tank lists

MI UST 2: Underground Storage Tank Listing

A listing of underground storage tank site locations that have unknown owner information.

Date of Government Version: 04/23/2018 Date Data Arrived at EDR: 04/25/2018 Date Made Active in Reports: 06/27/2018

Number of Days to Update: 63

Source: Department of Licensing & Regulatory Affairs

Telephone: 517-373-1820 Last EDR Contact: 07/10/2019

Next Scheduled EDR Contact: 10/28/2019

Data Release Frequency: Varies

MI 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: 02/06/2019 Date Data Arrived at EDR: 02/13/2019 Date Made Active in Reports: 03/25/2019

Number of Days to Update: 40

Source: Department of Licensing & Regulatory Affairs

Telephone: 517-373-1820 Last EDR Contact: 08/13/2019

Next Scheduled EDR Contact: 11/25/2019 Data Release Frequency: Annually

MI AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 01/15/2019 Date Data Arrived at EDR: 01/24/2019 Date Made Active in Reports: 03/25/2019

Number of Days to Update: 60

Source: Department of Licensing & Regulatory Affairs

Telephone: 517-373-1820 Last EDR Contact: 08/07/2019

Next Scheduled EDR Contact: 11/25/2019
Data Release Frequency: No Update Planned

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019

Data Release Frequency: Varies

#### State and tribal institutional control / engineering control registries

MI AUL: Engineering and Institutional Controls

A listing of sites with institutional and/or engineering controls in place.

Date of Government Version: 06/05/2019 Date Data Arrived at EDR: 06/06/2019 Date Made Active in Reports: 07/31/2019

Number of Days to Update: 55

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-4828 Last EDR Contact: 08/21/2019

Next Scheduled EDR Contact: 12/09/2019 Data Release Frequency: Quarterly

INDIAN VCP R1: 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: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 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: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

#### State and tribal Brownfields sites

MI 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: 01/15/2016 Date Data Arrived at EDR: 02/02/2016 Date Made Active in Reports: 04/04/2016

Number of Days to Update: 62

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-4805 Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019

Data Release Frequency: Varies

MI 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: 04/23/2019 Date Data Arrived at EDR: 04/24/2019 Date Made Active in Reports: 06/04/2019

Number of Days to Update: 41

Source: Economic Development Corporation

Telephone: 888-522-0103 Last EDR Contact: 08/09/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/03/2019 Date Data Arrived at EDR: 06/04/2019 Date Made Active in Reports: 08/26/2019

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 06/04/2019

Next Scheduled EDR Contact: 09/30/2019 Data Release Frequency: Semi-Annually

#### ADDITIONAL ENVIRONMENTAL RECORDS

## Local Lists of Landfill / Solid Waste Disposal Sites

MI SWRCY: Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 03/20/2019 Date Data Arrived at EDR: 03/21/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 54

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-241-5719 Last EDR Contact: 06/20/2019

Next Scheduled EDR Contact: 10/07/2019

Data Release Frequency: Varies

MI 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 Environment, Great Lakes, and Energy

Telephone: 517-335-4034 Last EDR Contact: 02/28/2003 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

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: 07/25/2019

Next Scheduled EDR Contact: 11/11/2019 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: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 07/19/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 08/02/2019

Next Scheduled EDR Contact: 11/11/2019 Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019 Date Data Arrived at EDR: 06/13/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 82

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 08/21/2019

Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: No Update Planned

#### Local Lists of Hazardous waste / Contaminated Sites

MI PART 201: Part 201 Site List

A Part 201 Listed site is a location that has been evaluated and scored by the DEQ using the Part 201 scoring model. The location is or includes a "facility" as defined by Part 201, where there has been a release of a hazardous substance(s) in excess of the Part 201 residential criteria, and/or where corrective actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use. The Part 201 List does not include all of the sites of contamination that are subject to regulation under Part 201 because owners are not required to inform the DEQ about the sites and can pursue cleanup independently. Sites of environmental contamination that are not known to DEQ are not on the list, nor are sites with releases that resulted in low environmental impact.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/03/2014
Date Made Active in Reports: 10/03/2014

Number of Days to Update: 0

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-284-5103 Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

## MI INVENTORY: Inventory of Facilities

The Inventory of Facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213, Leaking Underground Storage Tanks of the NREPA; and Facilities identified through submittals of Baseline Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all of the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities that are not known to DEQ are not on the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities listed here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective action has not been completed is located on the Leaking Underground Storage Tanks Site Search webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria. A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

Date of Government Version: 04/23/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 06/05/2019

Number of Days to Update: 42

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-284-5136 Last EDR Contact: 07/23/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Quarterly

MI CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab locations.

Date of Government Version: 05/23/2019 Date Data Arrived at EDR: 06/06/2019 Date Made Active in Reports: 07/31/2019

Number of Days to Update: 55

Source: Department of Community Health

Telephone: 517-373-3740 Last EDR Contact: 07/31/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: No Update Planned

#### MI DEL PART 201: Delisted List of Contaminated Sites

A deleted site has been removed from the Part 201 List because information known to the DEQ at the time of the evaluation does not support inclusion on the Part 201 List. This designation is often applied to sites where changes in cleanup criteria resulted in a determination that the site no longer exceeds any applicable cleanup criterion. A delisted site has been removed from the Part 201 List because response actions have reduced the levels of contaminants to concentrations which meet or are below the criteria for unrestricted residential use.

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/01/2013 Date Made Active in Reports: 09/11/2013

Number of Days to Update: 41

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-9541 Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Varies

## US 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: 06/11/2019 Date Data Arrived at EDR: 06/13/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 82

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 08/21/2019

Next Scheduled EDR Contact: 12/09/2019 Data Release Frequency: Quarterly

## MI PFAS: PFAS Contaminated Sites Listing

PFAS have been widely used in numerous industrial and residential applications since the 1950a??s. Their stability and unique chemical properties produce waterproof, stain resistant, and nonstick qualities in products. They are found in some firefighting foams and a wide range of consumer products such as carpet treatments, non-stick cookware, water-resistant fabrics, food packaging materials, and personal care products.

Date of Government Version: 04/04/2019 Date Data Arrived at EDR: 05/15/2019 Date Made Active in Reports: 07/12/2019

Number of Days to Update: 58

Source: Department of Environment, Great Lakes & Energy

Telephone: 517-284-9278 Last EDR Contact: 08/16/2019

Next Scheduled EDR Contact: 11/25/2019 Data Release Frequency: Varies

# Local Land Records

#### MI 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: 11/02/2018 Date Data Arrived at EDR: 01/17/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 63

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-241-7603 Last EDR Contact: 07/19/2019

Next Scheduled EDR Contact: 10/28/2019 Data Release Frequency: Varies

#### 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: 07/30/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 35

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Semi-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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 49

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 Data Release Frequency: Quarterly

# Records of Emergency Release Reports

#### MI 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: 12/31/2018 Date Data Arrived at EDR: 01/25/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 55

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-8427 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Quarterly

## RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 Data Release Frequency: Quarterly

## 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: 05/15/2019 Date Data Arrived at EDR: 05/21/2019 Date Made Active in Reports: 08/08/2019

Number of Days to Update: 79

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 08/23/2019

Next Scheduled EDR Contact: 12/02/2019 Data Release Frequency: Varies

## 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: 888-275-8747 Last EDR Contact: 07/09/2019

Next Scheduled EDR Contact: 10/21/2019 Data Release Frequency: Semi-Annually

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 07/10/2019

Next Scheduled EDR Contact: 10/21/2019

Data Release Frequency: N/A

## SCRD DRYCLEANERS: State Coalition for Remediation 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: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 08/16/2019

Next Scheduled EDR Contact: 11/25/2019 Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/07/2019

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 Data Release Frequency: Quarterly

# EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 08/05/2019

Next Scheduled EDR Contact: 11/18/2019 Data Release Frequency: Quarterly

# 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 08/09/2019

Next Scheduled EDR Contact: 11/18/2019 Data Release Frequency: Varies

## 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

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 06/21/2017 Date Made Active in Reports: 01/05/2018

Number of Days to Update: 198

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 06/18/2019

Next Scheduled EDR Contact: 09/30/2019 Data Release Frequency: Every 4 Years

# 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: 12/31/2016 Date Data Arrived at EDR: 01/10/2018 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 2

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 08/23/2019

Next Scheduled EDR Contact: 12/02/2019 Data Release Frequency: Annually

## 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: 09/30/2018 Date Data Arrived at EDR: 04/24/2019 Date Made Active in Reports: 08/08/2019

Number of Days to Update: 106

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 07/26/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Annually

#### 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: 07/19/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 35

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 12/16/2019 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019 Date Data Arrived at EDR: 05/02/2019 Date Made Active in Reports: 05/23/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 07/22/2019

Next Scheduled EDR Contact: 11/04/2019

Data Release Frequency: Varies

## 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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/23/2019

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 11/18/2019 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: 03/20/2019 Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 34

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 07/12/2019

Next Scheduled EDR Contact: 10/21/2019 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: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 07/03/2019

Next Scheduled EDR Contact: 10/21/2019 Data Release Frequency: Quarterly

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: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: No Update Planned

FTTS INSP: 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: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

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: 06/20/2019 Date Data Arrived at EDR: 06/20/2019 Date Made Active in Reports: 08/08/2019

Number of Days to Update: 49

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 09/04/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 06/07/2019

Next Scheduled EDR Contact: 09/16/2019 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 09/03/2019

Next Scheduled EDR Contact: 12/16/2019 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency Telephone: 202-566-0517

Last EDR Contact: 08/09/2019

Next Scheduled EDR Contact: 11/04/2019

Data Release Frequency: Varies

## 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: 04/02/2019 Date Data Arrived at EDR: 04/02/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 07/01/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Quarterly

#### HIST FTTS: 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

## 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

### DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 04/01/2019 Date Data Arrived at EDR: 04/30/2019 Date Made Active in Reports: 08/08/2019

Number of Days to Update: 100

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 07/31/2019

Next Scheduled EDR Contact: 11/11/2019 Data Release Frequency: Quarterly

# 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: 03/31/2019 Date Data Arrived at EDR: 04/23/2019 Date Made Active in Reports: 05/23/2019

Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 07/08/2019

Next Scheduled EDR Contact: 10/21/2019 Data Release Frequency: Varies

# 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: 12/31/2015 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 09/28/2017

Number of Days to Update: 218

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/07/2019 Data Release Frequency: Biennially

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: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 07/10/2019

Next Scheduled EDR Contact: 10/21/2019 Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 3

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 07/30/2019

Next Scheduled EDR Contact: 11/18/2019 Data Release Frequency: Varies

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: 06/23/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/03/2017

Number of Days to Update: 23

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 08/21/2019

Next Scheduled EDR Contact: 12/02/2019 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/19/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 35

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/19/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 35

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 09/05/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem

Date of Government Version: 10/27/2009 Date Data Arrived at EDR: 11/10/2009 Date Made Active in Reports: 12/08/2009

Number of Days to Update: 28

Source: N/A Telephone: N/A

Last EDR Contact: 11/12/1996 Next Scheduled EDR Contact: N/A Data Release Frequency: Annually

US AIRS MINOR: Aerometric Information Retrieval System Facility Subsystem

Date of Government Version: 10/27/2009 Date Data Arrived at EDR: 11/10/2009 Date Made Active in Reports: 12/08/2009

Number of Days to Update: 28

Source: N/A Telephone: N/A

Last EDR Contact: 11/12/1996 Next Scheduled EDR Contact: N/A Data Release Frequency: Annually

US MINES: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team

of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 08/30/2019

Next Scheduled EDR Contact: 12/09/2019

Data Release Frequency: Varies

US MINES 2: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team

of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 08/30/2019

Next Scheduled EDR Contact: 12/09/2019

Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team

of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 08/30/2019

Next Scheduled EDR Contact: 12/09/2019 Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019 Date Data Arrived at EDR: 03/28/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 34

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 08/27/2019

Next Scheduled EDR Contact: 12/23/2019 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: 05/03/2019 Date Data Arrived at EDR: 06/05/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 90

Source: EPA

Telephone: (312) 353-2000 Last EDR Contact: 09/04/2019

Next Scheduled EDR Contact: 12/16/2019 Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 01/17/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 74

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 07/15/2019

Next Scheduled EDR Contact: 10/28/2019 Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019 Date Data Arrived at EDR: 04/09/2019 Date Made Active in Reports: 05/23/2019

Number of Days to Update: 44

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 07/09/2019

Next Scheduled EDR Contact: 10/21/2019 Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 71

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 08/21/2019

Next Scheduled EDR Contact: 12/09/2019 Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/20/2019 Date Data Arrived at EDR: 05/21/2019 Date Made Active in Reports: 08/08/2019

Number of Days to Update: 79

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 08/20/2019

Next Scheduled EDR Contact: 12/02/2019 Data Release Frequency: Quarterly

# Other Ascertainable Records

MI AIRS: Permit and Emissions Inventory Data Permit and emissions inventory data.

> Date of Government Version: 06/24/2019 Date Data Arrived at EDR: 06/27/2019 Date Made Active in Reports: 07/31/2019

Number of Days to Update: 34

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-7074 Last EDR Contact: 06/17/2019

Next Scheduled EDR Contact: 09/30/2019 Data Release Frequency: Annually

MI ASBESTOS: Asbestos Notification Listing Asbestos

Date of Government Version: 04/30/2019 Date Data Arrived at EDR: 05/07/2019 Date Made Active in Reports: 06/04/2019

Number of Days to Update: 28

Source: Department of Licensing & Regulatory Affairs

Telephone: 517-284-7699 Last EDR Contact: 09/03/2019

Next Scheduled EDR Contact: 11/11/2019 Data Release Frequency: Quarterly

MI BEA: Baseline Environmental Assessment Database

A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

Date of Government Version: 08/21/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 09/12/2013

Number of Days to Update: 20

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-9541 Last EDR Contact: 08/07/2019

Next Scheduled EDR Contact: 11/25/2019
Data Release Frequency: No Update Planned

MI COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 10/20/2016 Date Data Arrived at EDR: 02/02/2017 Date Made Active in Reports: 04/20/2017

Number of Days to Update: 77

Source: Department of Environment, Great Lakes, and Energy

Telephone: 586-753-3754 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Varies

MI DRYCLEANERS: Drycleaning Establishments A listing of drycleaning facilities in Michigan.

> Date of Government Version: 01/15/2019 Date Data Arrived at EDR: 01/17/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 74

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-335-4586 Last EDR Contact: 07/19/2019

Next Scheduled EDR Contact: 10/28/2019 Data Release Frequency: Quarterly

MI Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/07/2019

Number of Days to Update: 26

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-335-6610 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Semi-Annually

MI Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/19/2019 Date Data Arrived at EDR: 02/22/2019 Date Made Active in Reports: 03/22/2019

Number of Days to Update: 28

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-335-4034 Last EDR Contact: 06/20/2019

Next Scheduled EDR Contact: 10/07/2019 Data Release Frequency: Varies

MI FINANCIAL ASSURANCE 3: Financial Assurance Information Listing

Financial assurance information for underground storage tank facilities.

Date of Government Version: 04/08/2019 Date Data Arrived at EDR: 04/24/2019 Date Made Active in Reports: 06/14/2019

Number of Days to Update: 51

Source: Department of Licensing & Regulatory Affairs

Telephone: 517-335-7279 Last EDR Contact: 06/26/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Varies

MI LEAD CERT: Lead Safe Housing Registry

A listing of Michigan properties included in the Lead Safe Housing Registry.

Date of Government Version: 09/15/2015 Date Data Arrived at EDR: 09/16/2015 Date Made Active in Reports: 09/30/2015

Number of Days to Update: 14

Source: Department of Community Health

Telephone: 517-335-9699 Last EDR Contact: 08/16/2019

Next Scheduled EDR Contact: 12/16/2019 Data Release Frequency: Quarterly

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 76

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/10/2019

Next Scheduled EDR Contact: 09/23/2019 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: 01/01/2019 Date Data Arrived at EDR: 05/01/2019 Date Made Active in Reports: 06/21/2019

Number of Days to Update: 51

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 07/29/2019

Next Scheduled EDR Contact: 11/11/2019 Data Release Frequency: Quarterly

MI 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: 03/27/2019 Date Data Arrived at EDR: 04/03/2019

Date Made Active in Reports: 05/07/2019 Number of Days to Update: 34 Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-241-1300 Last EDR Contact: 07/03/2019

Next Scheduled EDR Contact: 10/14/2019 Data Release Frequency: Varies

MI UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 01/29/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 61

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-241-1515 Last EDR Contact: 07/09/2019

Next Scheduled EDR Contact: 11/04/2019 Data Release Frequency: Quarterly

MI WDS: Waste Data System

The Waste Data System (WDS) tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste programs.

Date of Government Version: 05/17/2019 Date Data Arrived at EDR: 05/17/2019 Date Made Active in Reports: 06/05/2019

Number of Days to Update: 19

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-284-6562 Last EDR Contact: 08/16/2019

Next Scheduled EDR Contact: 12/02/2019

Data Release Frequency: Varies

EDR MGP: 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 Hist Auto: EDR Exclusive Historical Auto 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. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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 Hist Cleaner: EDR Exclusive Historical 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. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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 RECOVERED GOVERNMENT ARCHIVES

# Exclusive Recovered Govt. Archives

## MI RGA PART 201: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environment, Great Lakes, and Energy

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

## MI RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environment, Great Lakes, and Energy

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

MI RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

Source: Department of Environment, Great Lakes, and Energy

# 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.

# Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). 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.

#### Electric Power Transmission Line Data

Source: PennWell Corporation

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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Source: Department of Natural Resources

Telephone: 517-241-2254

## STREET AND ADDRESS INFORMATION

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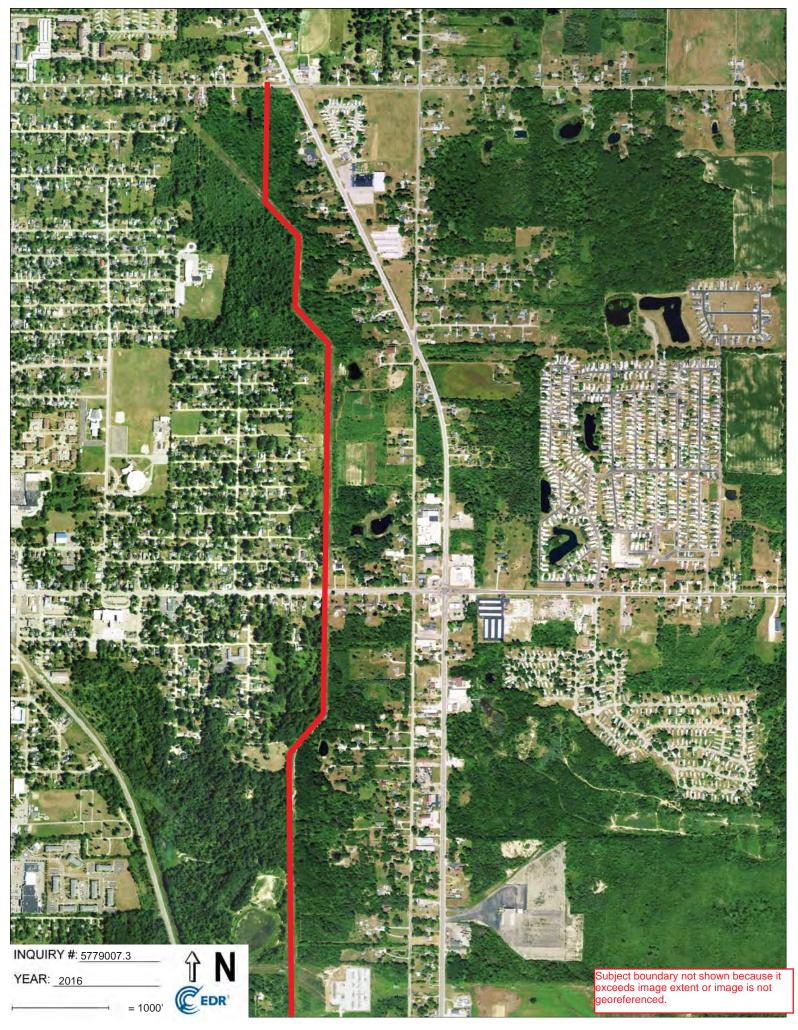


# Appendix C Aerial Photographs



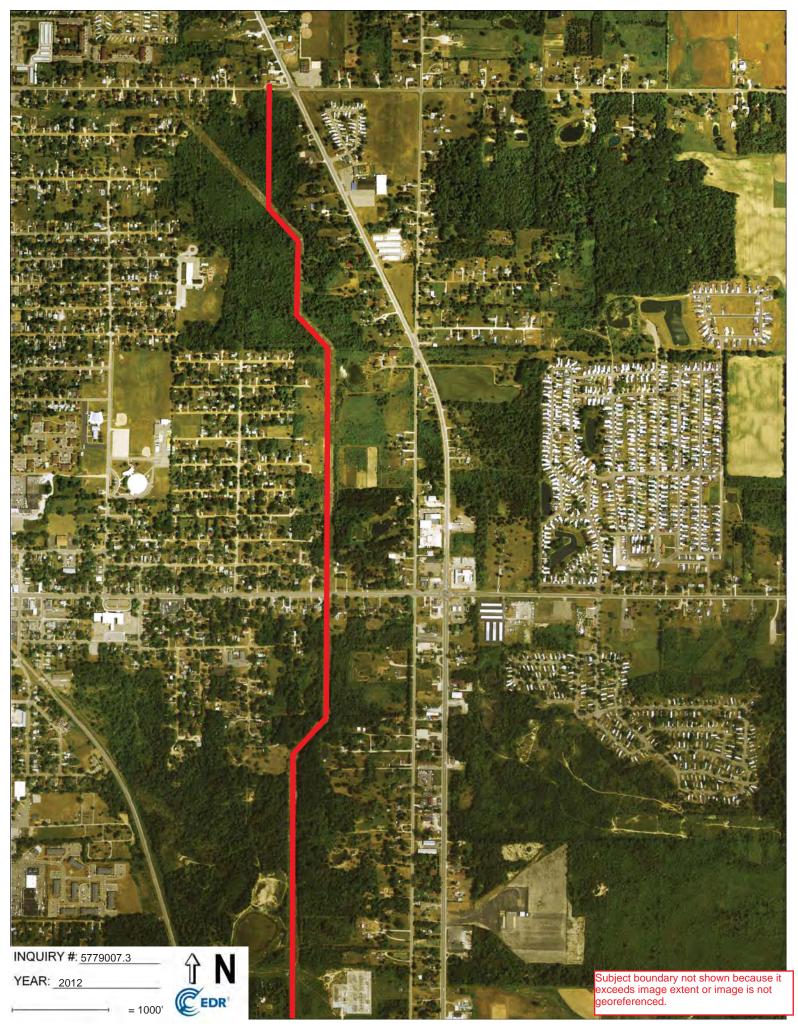


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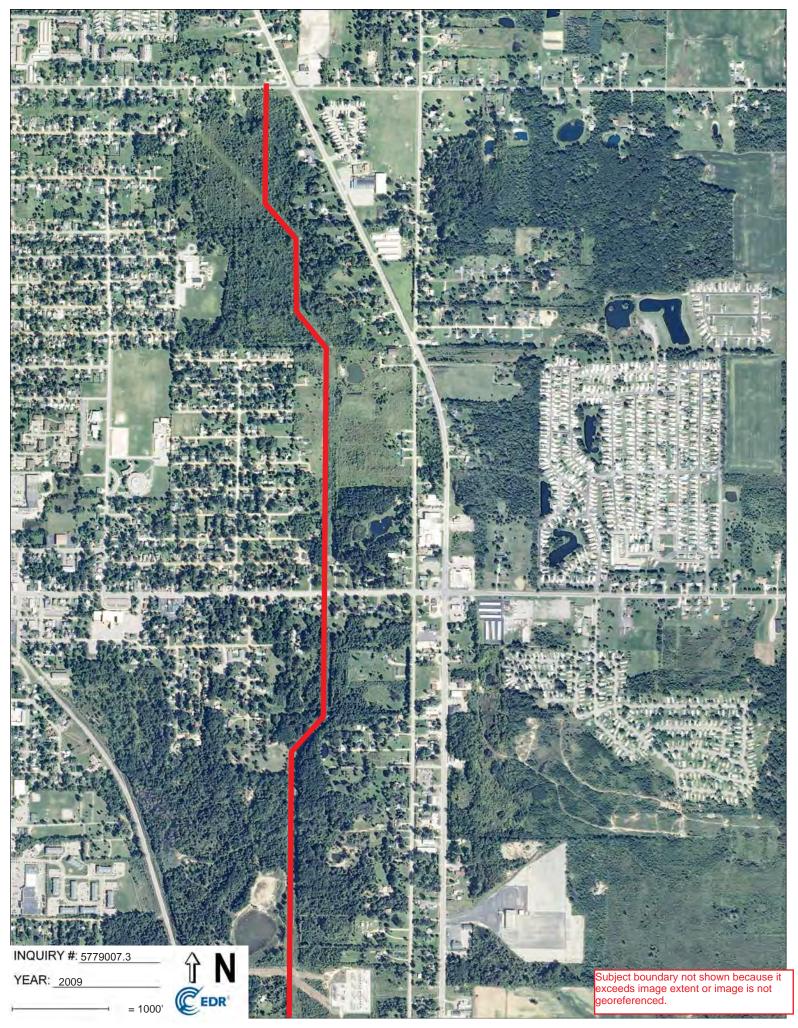






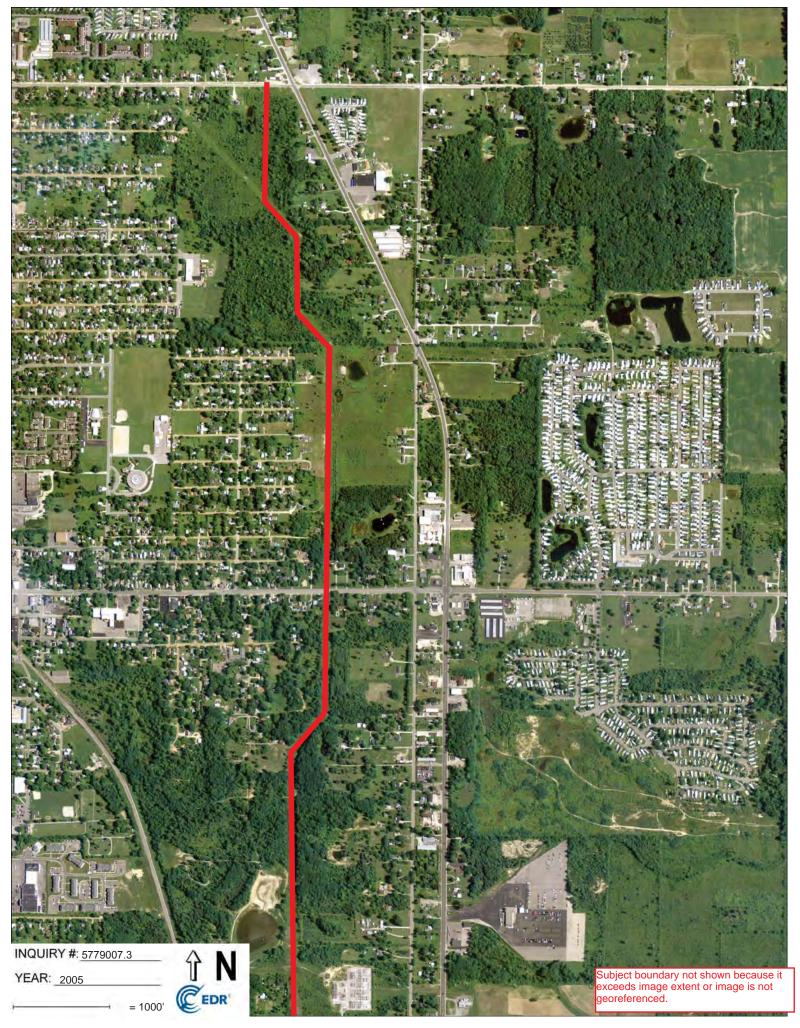


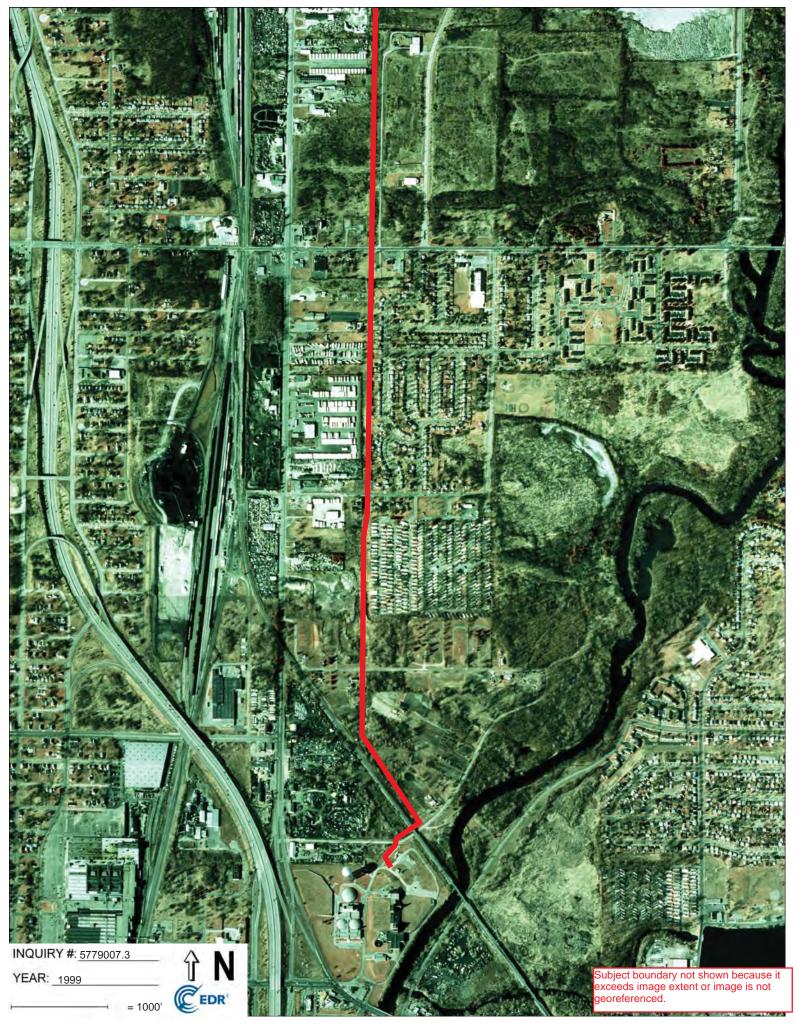


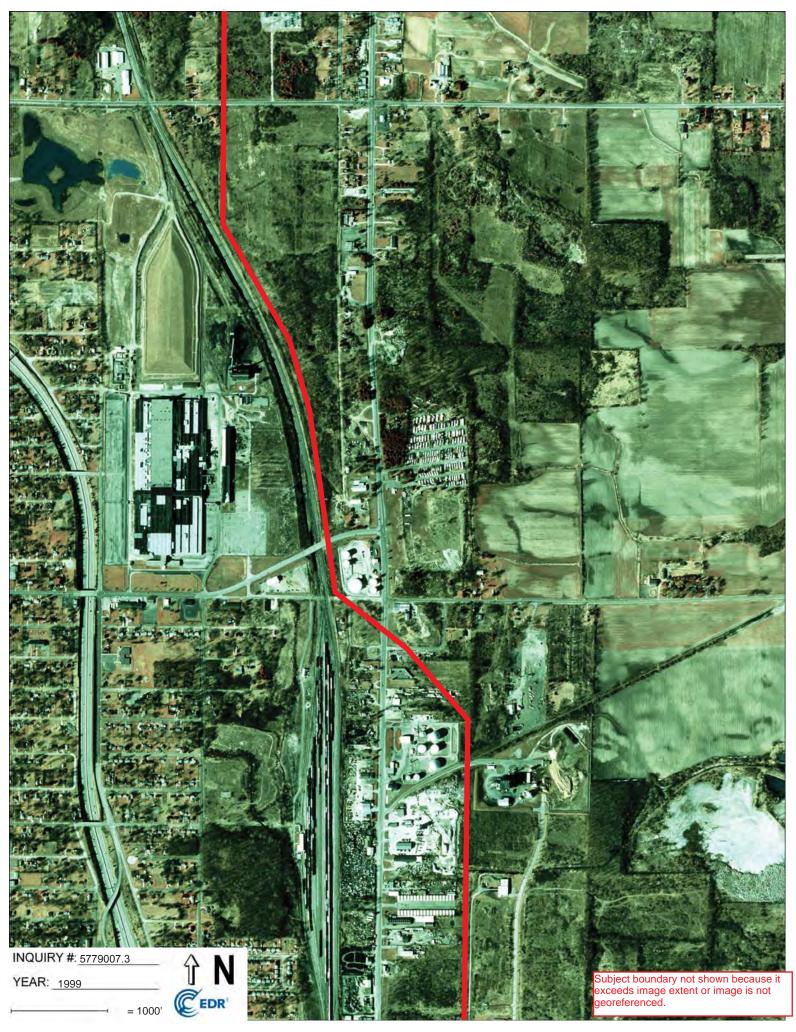


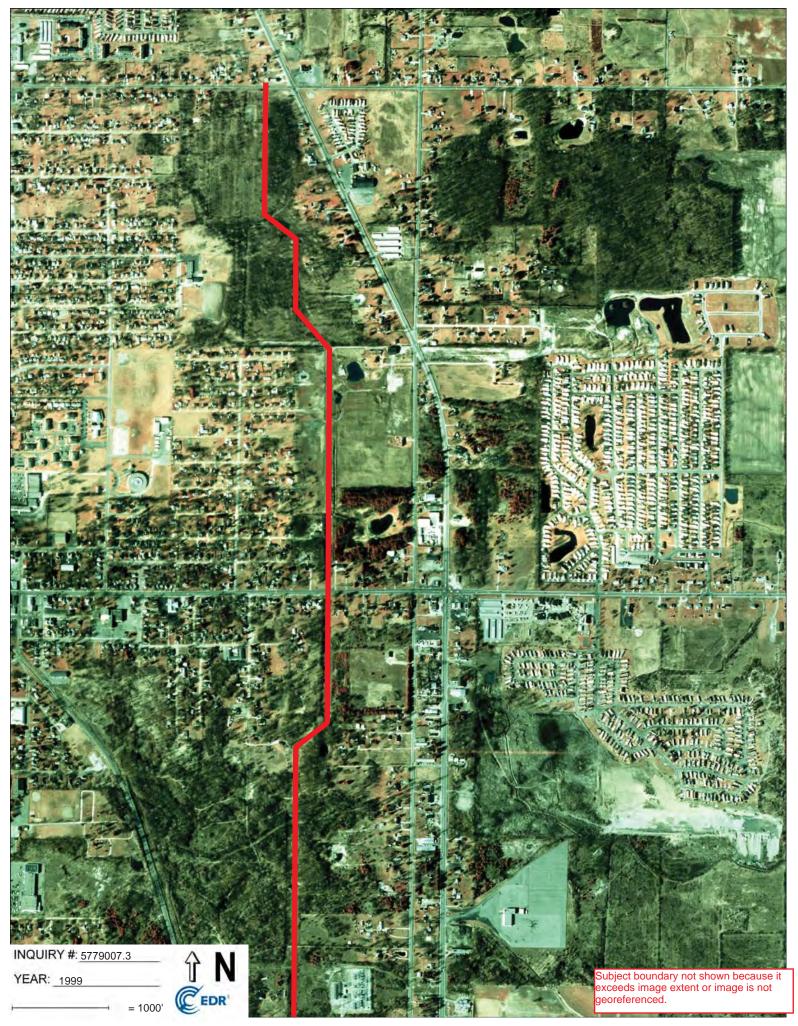


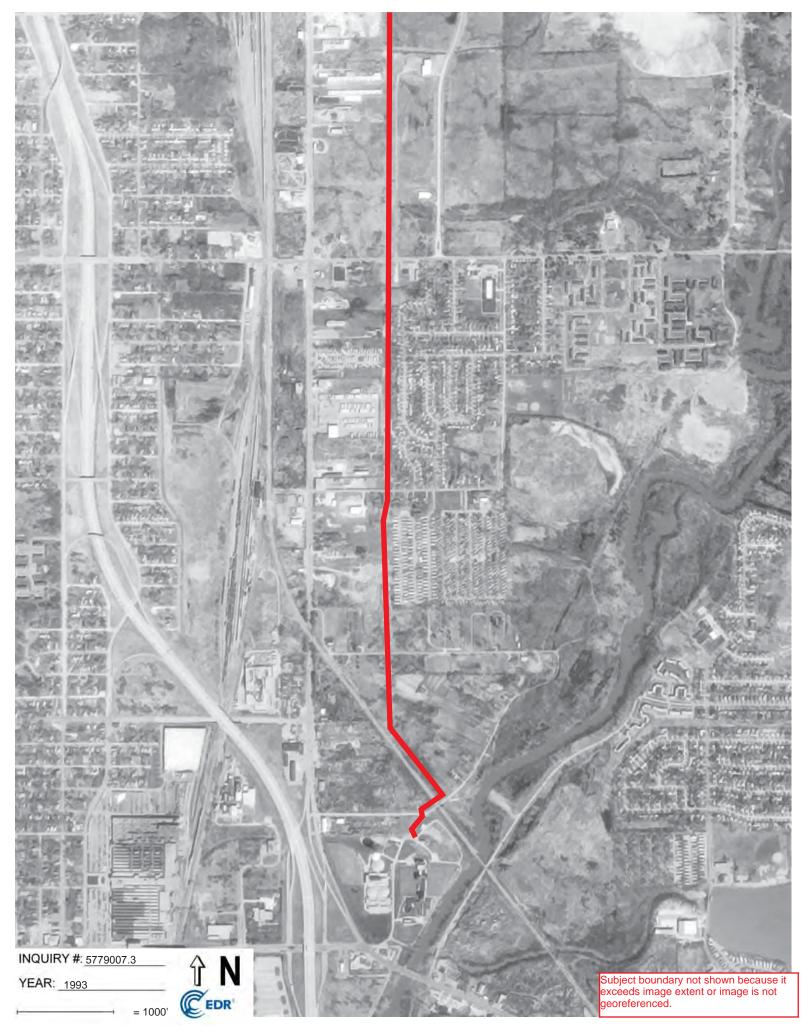


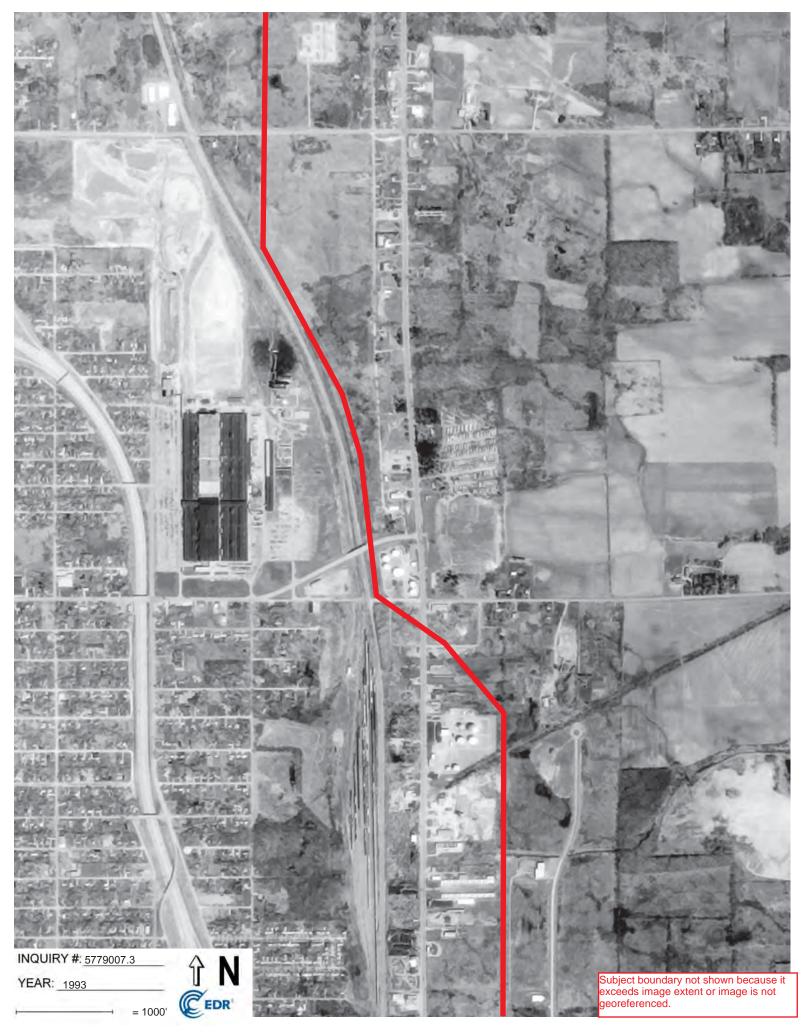


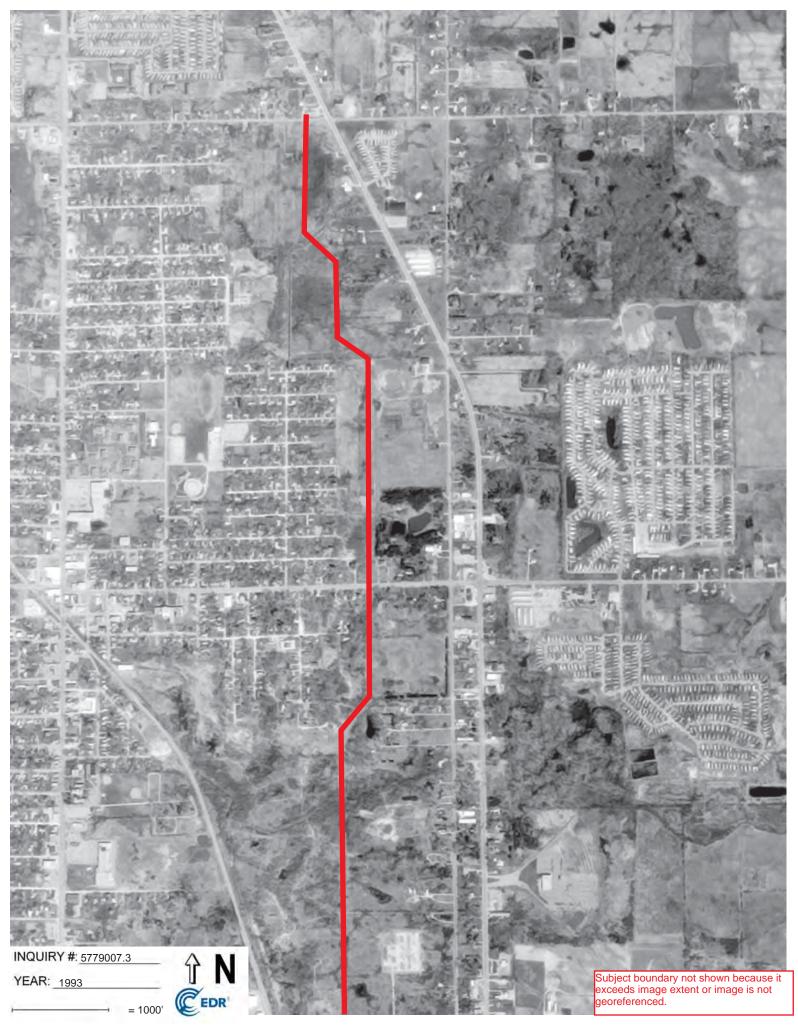






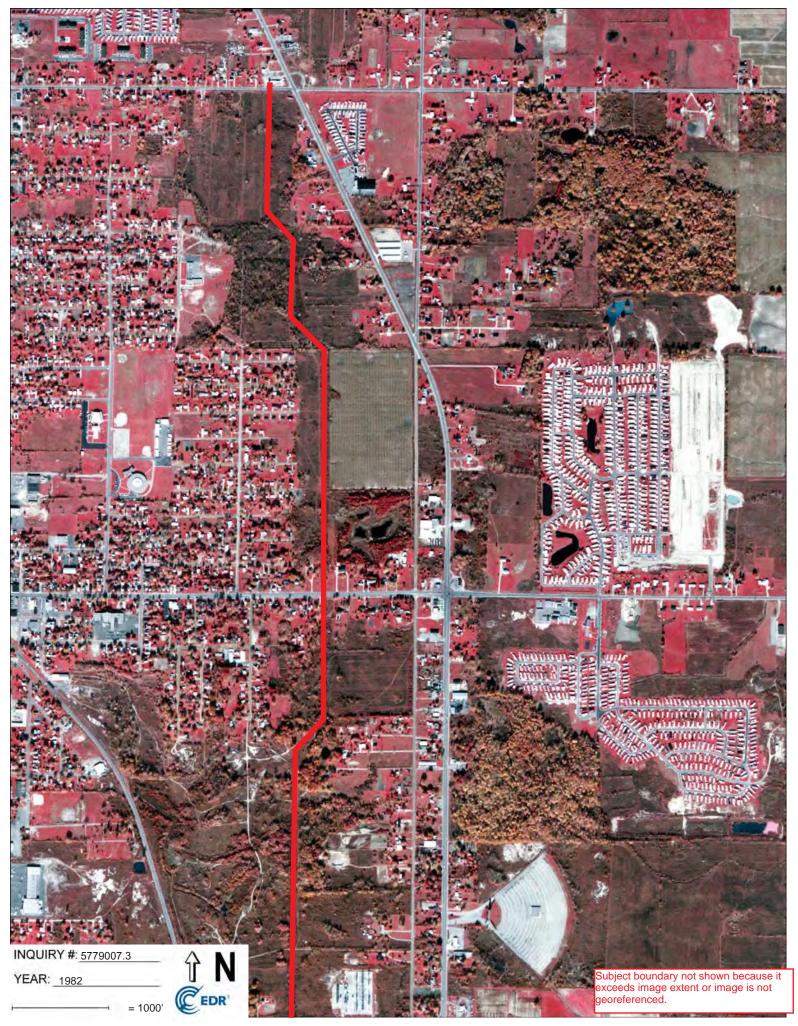




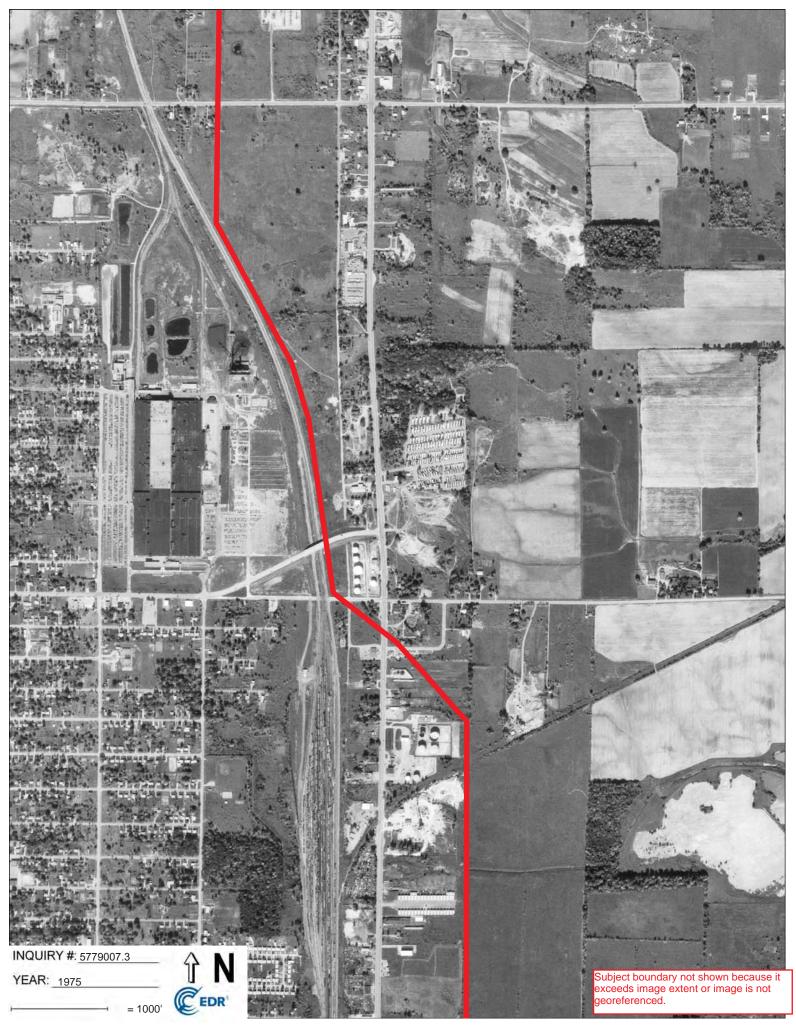


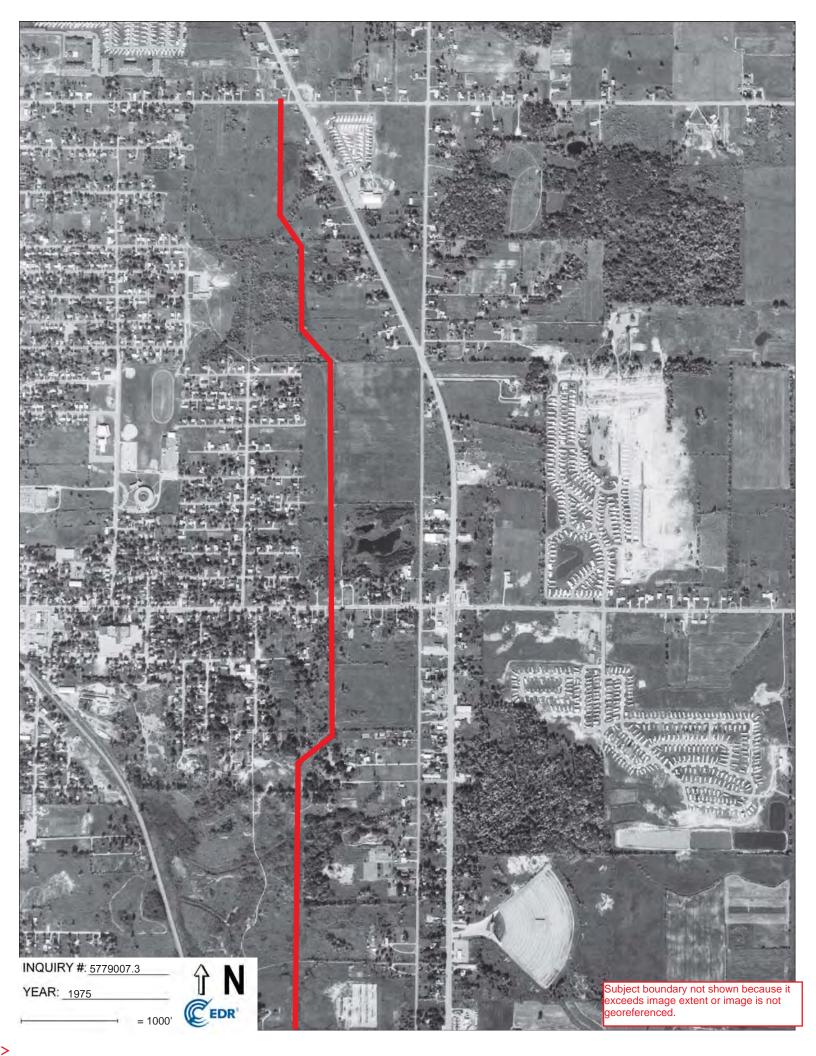


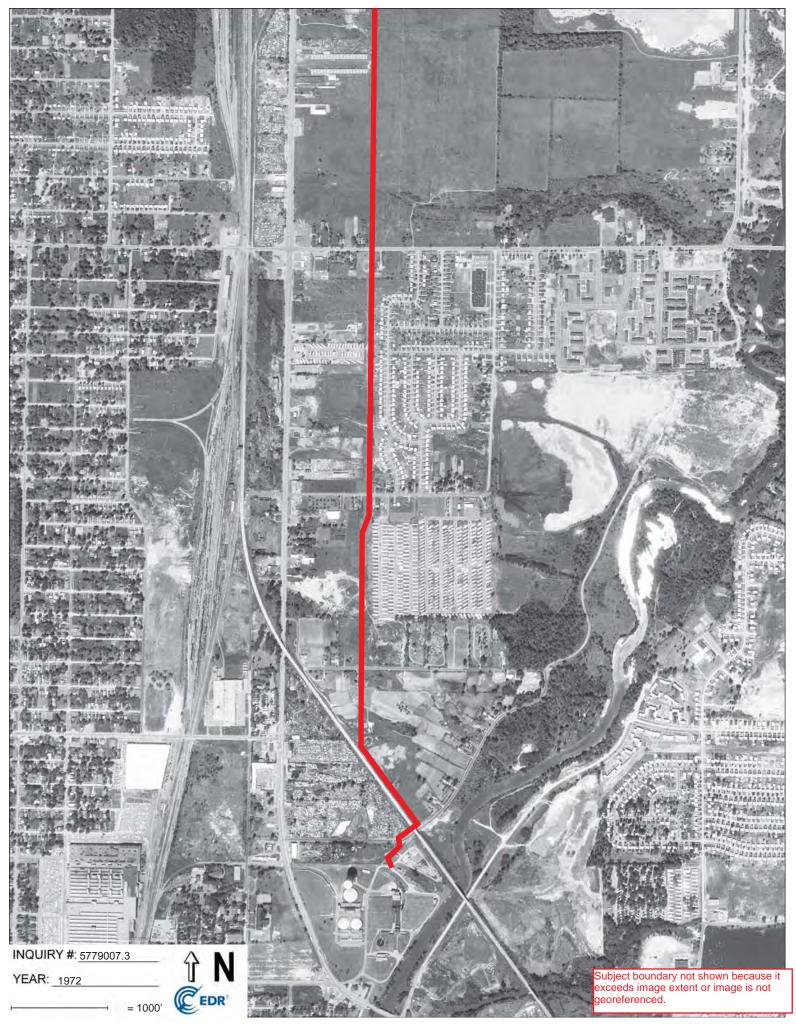


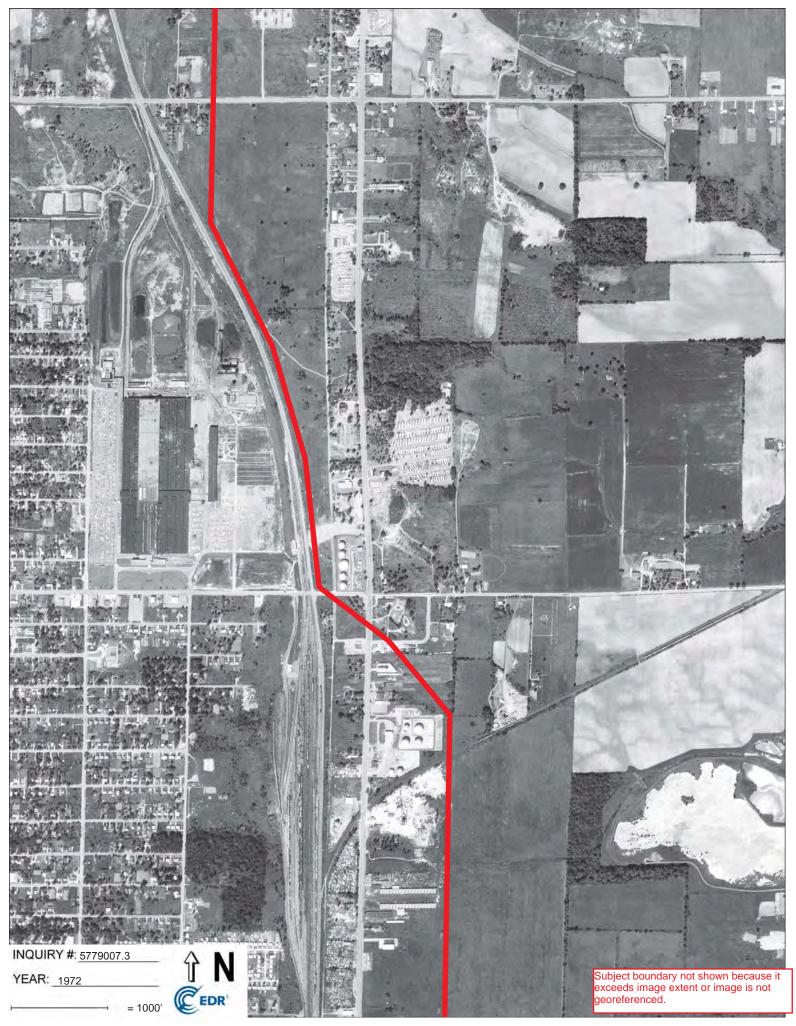


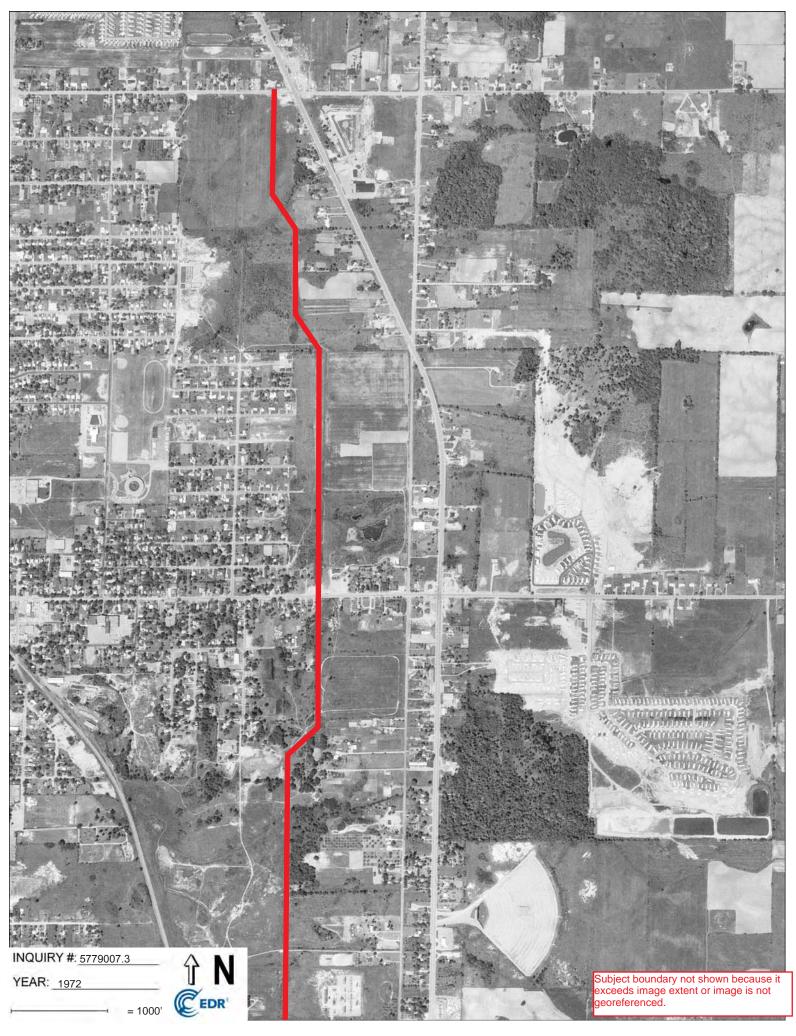


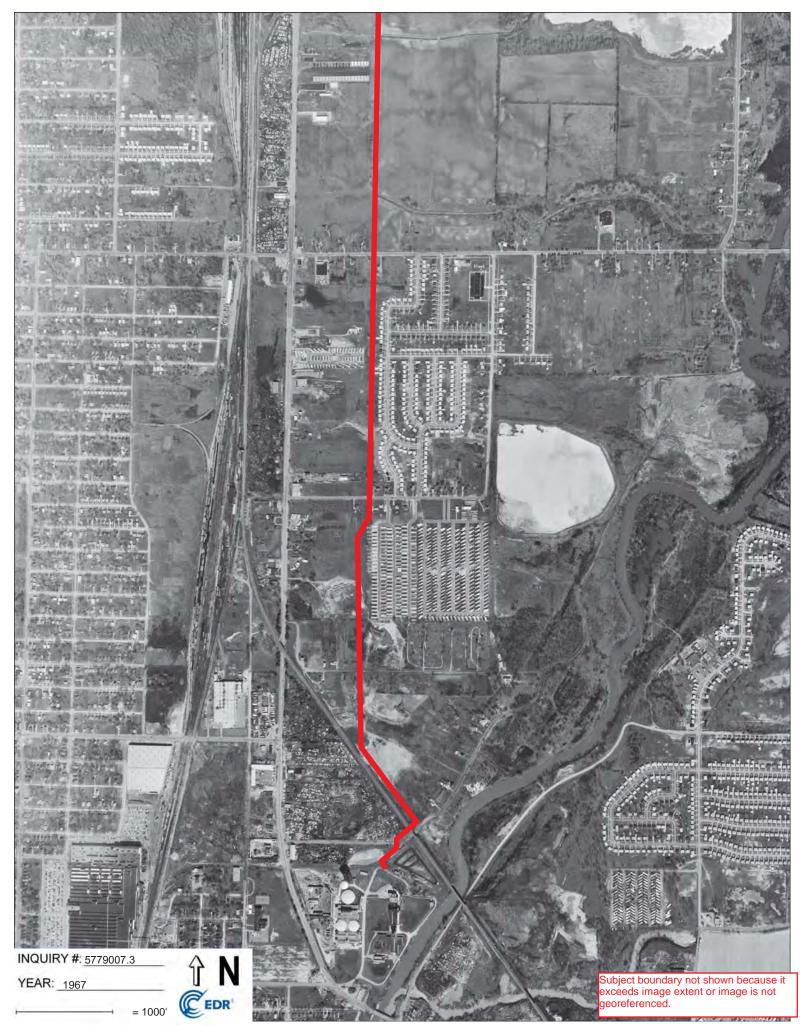


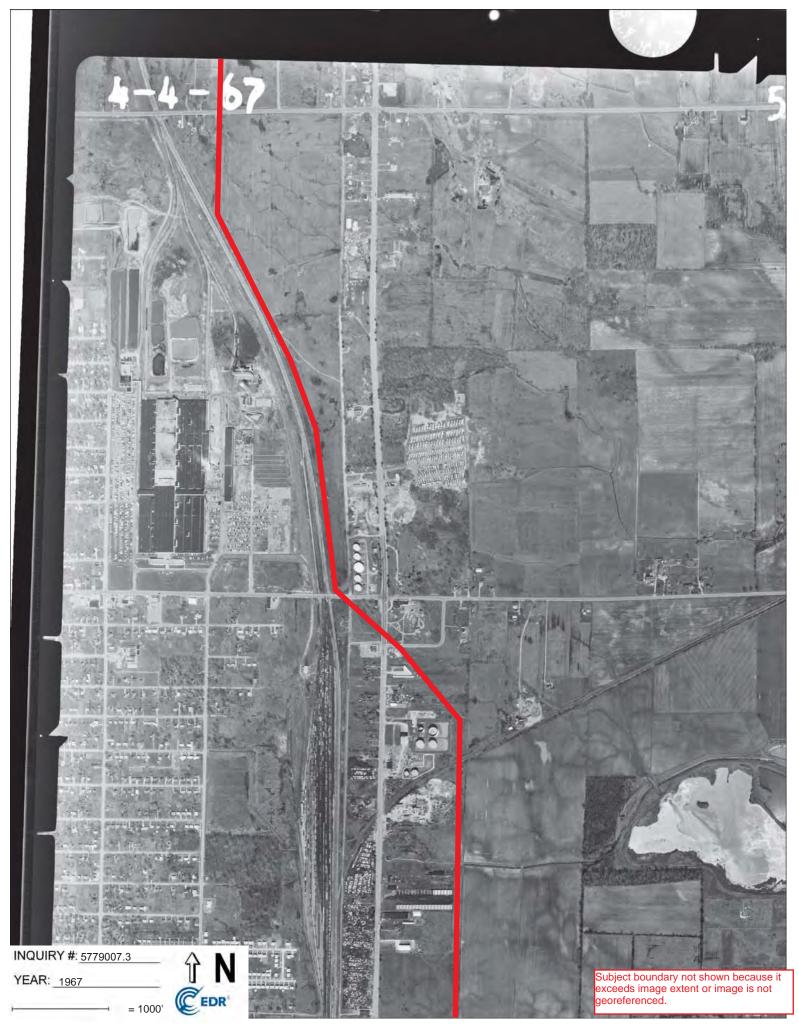


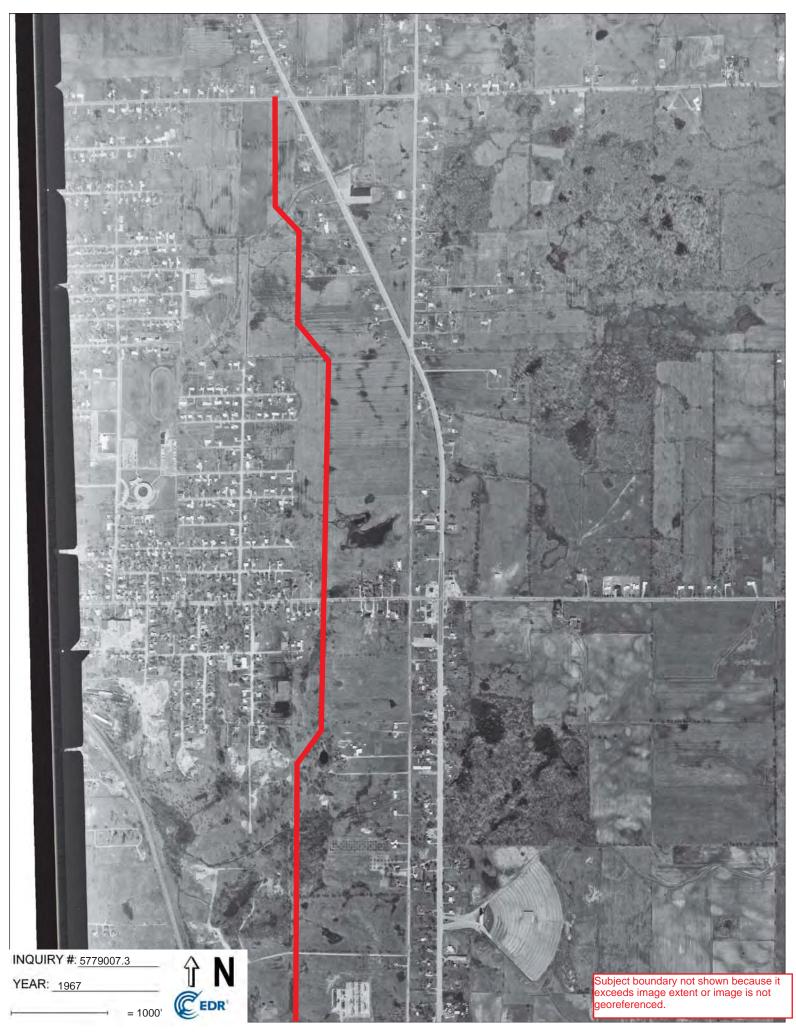


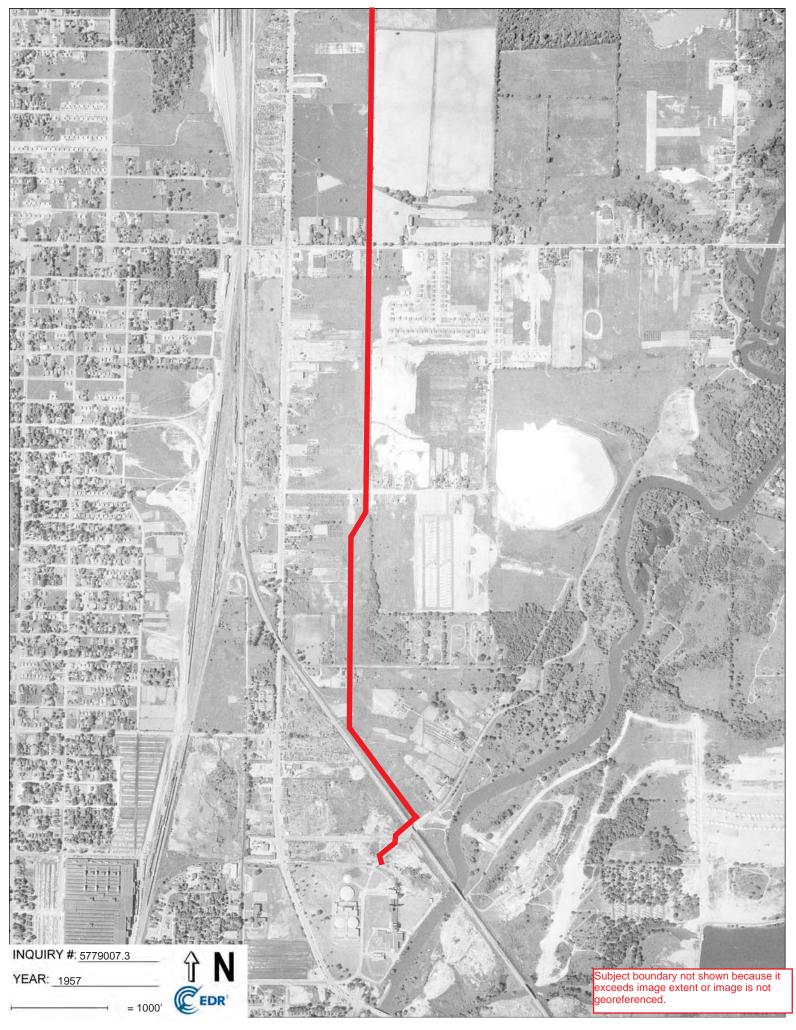


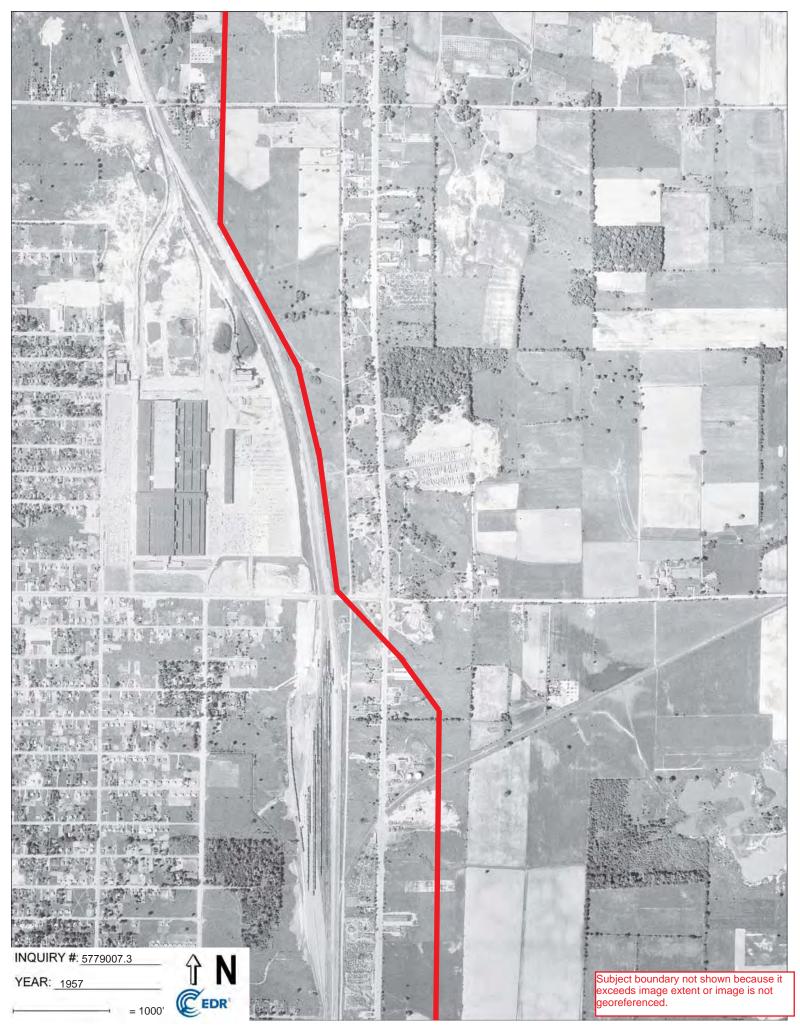


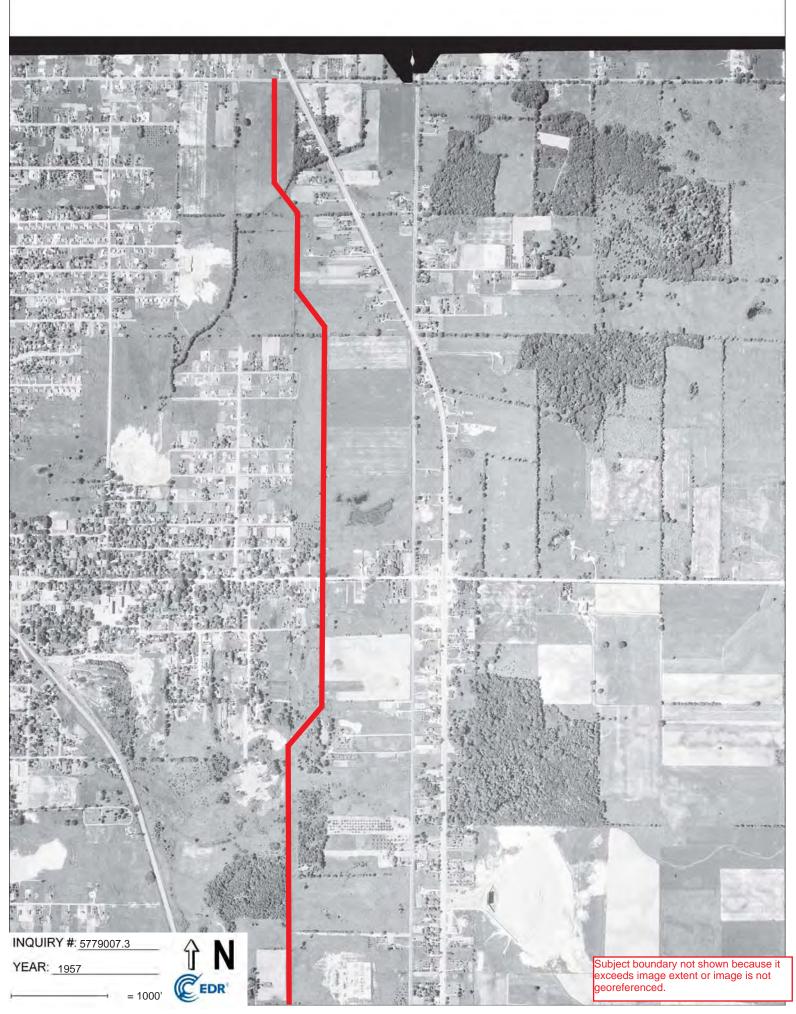






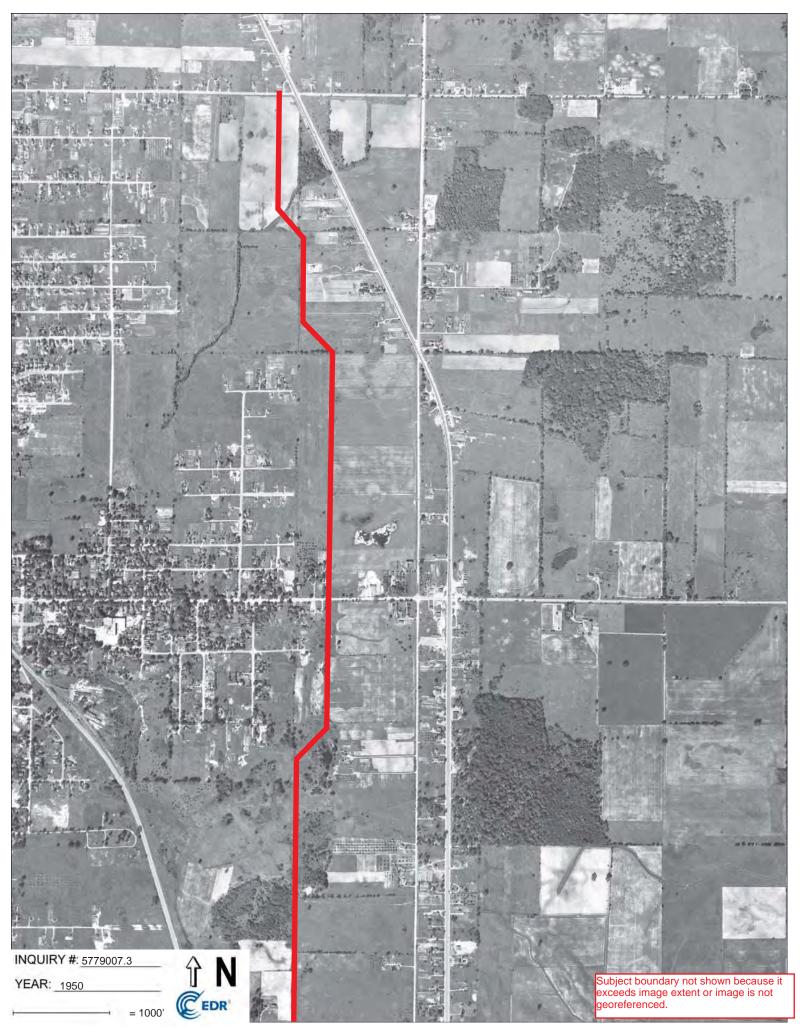




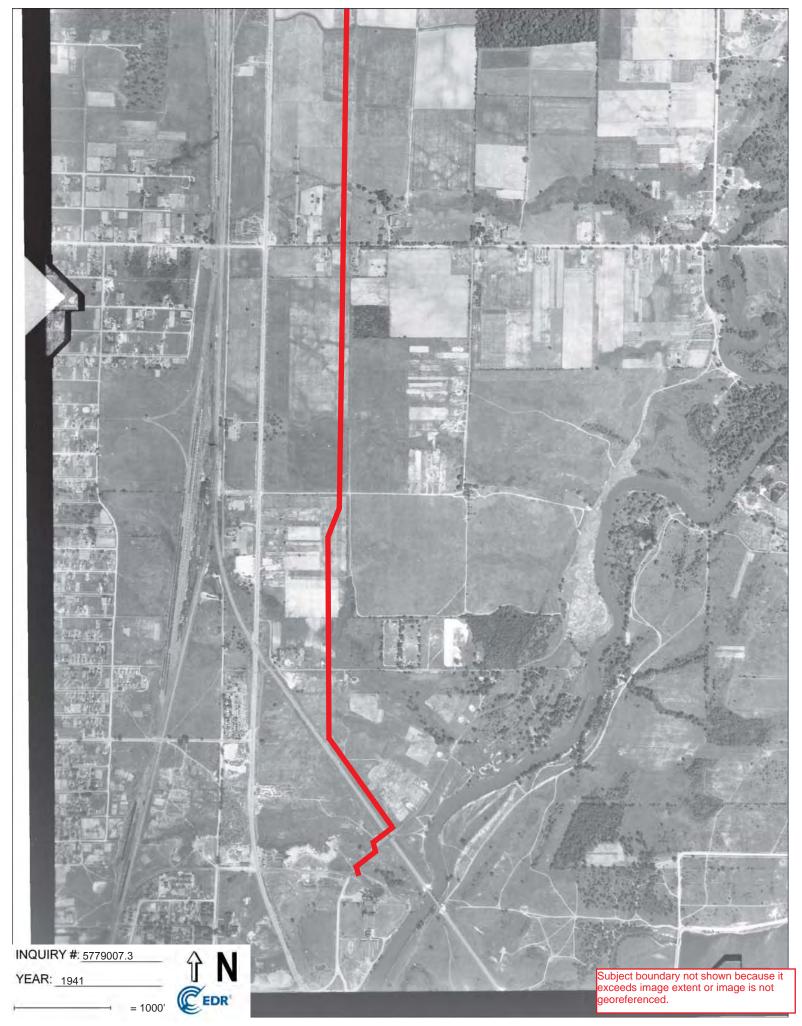






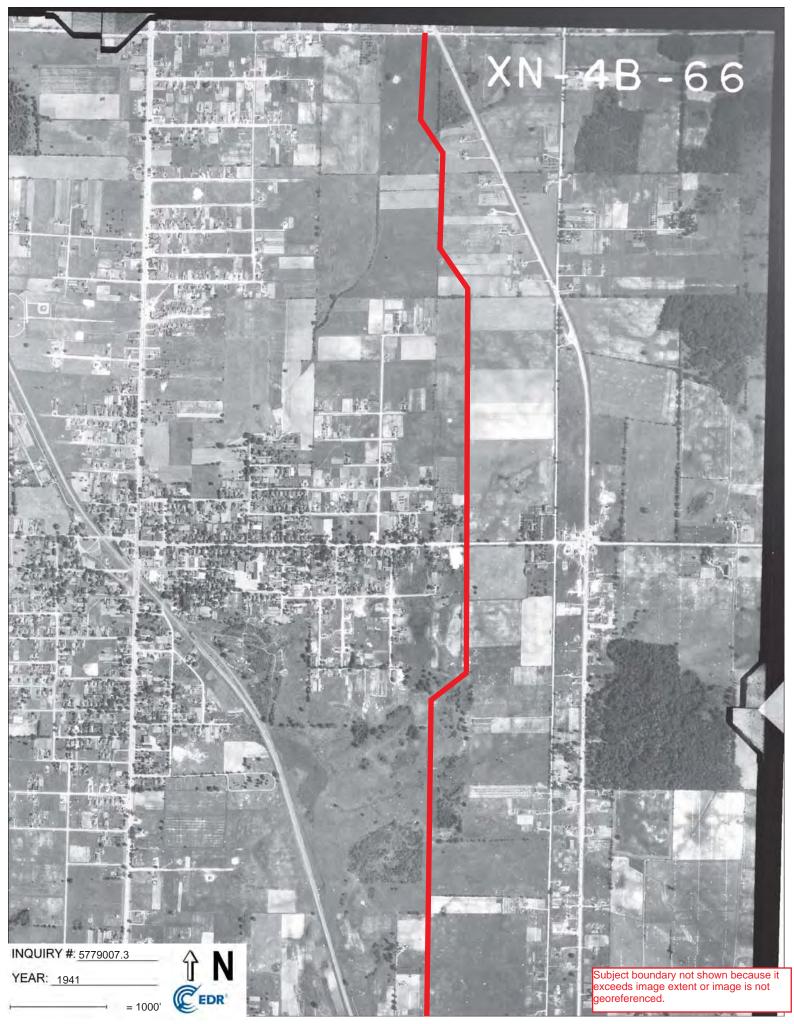


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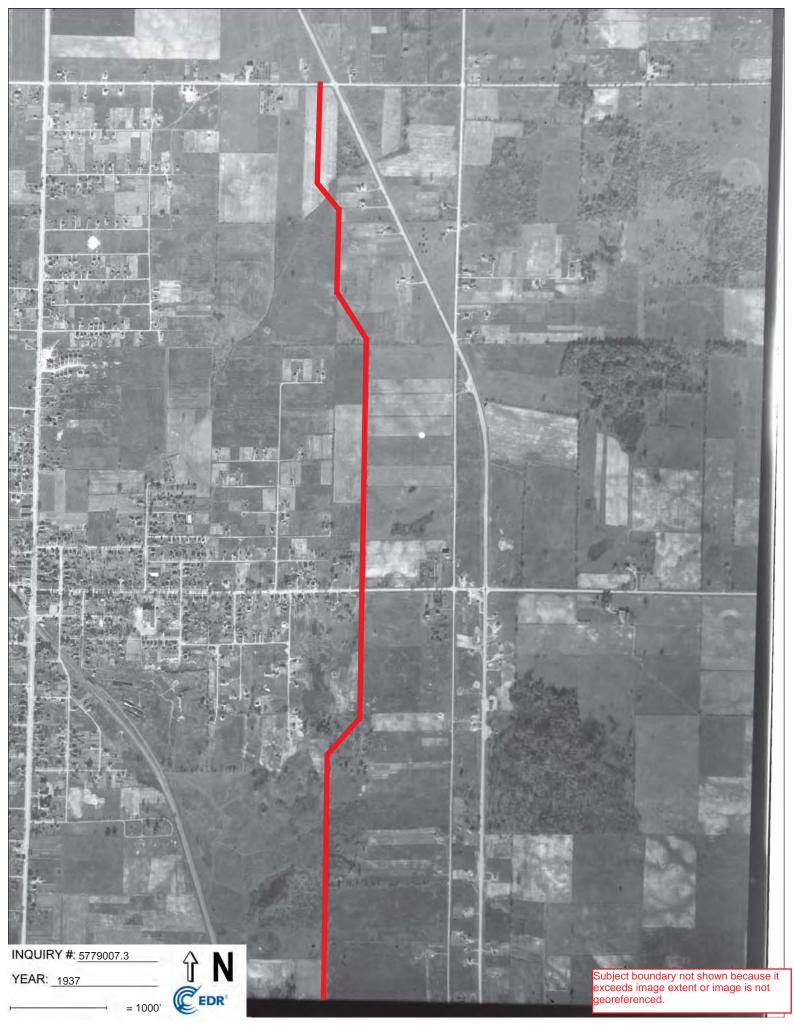
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Appendix D

City Directories

### Flint Secondary Water Supply Project

North Dort Highway Mount Morris, MI 48458

Inquiry Number: 5779007.4

September 16, 2019

# The EDR-City Directory Image 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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#### **EXECUTIVE SUMMARY**

#### **DESCRIPTION**

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

#### **RECORD SOURCES**

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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#### **RESEARCH SUMMARY**

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2014	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
2010	$\checkmark$	$\checkmark$	EDR Digital Archive
2005	$\checkmark$	$\checkmark$	EDR Digital Archive
2000	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
1995	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
1992	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
1985	$\overline{\checkmark}$		POLK DIRECTORY CO
1980	$\overline{\checkmark}$		POLK DIRECTORY CO
1975	$\overline{\checkmark}$		POLK DIRECTORY CO
1970	$\overline{\checkmark}$		POLK DIRECTORY CO
1965	$\checkmark$		POLK DIRECTORY CO
1960	$\overline{\checkmark}$		POLK DIRECTORY CO
1957	$\overline{\checkmark}$	$\checkmark$	POLK DIRECTORY CO

### **FINDINGS**

#### TARGET PROPERTY STREET

North Dort Highway Mount Morris, MI 48458

<u>Year</u>	CD Image	<u>Source</u>
N DORT HWY		
2014	pg A8	EDR Digital Archive
2010	pg A20	EDR Digital Archive
2005	pg A31	EDR Digital Archive
2000	pg A41	EDR Digital Archive
1995	pg A49	EDR Digital Archive
1992	pg A57	EDR Digital Archive
1985	pg A63	POLK DIRECTORY CO
1985	pg A64	POLK DIRECTORY CO
1985	pg A65	POLK DIRECTORY CO
1980	pg A70	POLK DIRECTORY CO
1980	pg A71	POLK DIRECTORY CO
1980	pg A72	POLK DIRECTORY CO
1975	pg A77	POLK DIRECTORY CO
1975	pg A78	POLK DIRECTORY CO
1975	pg A79	POLK DIRECTORY CO
1970	pg A83	POLK DIRECTORY CO
1970	pg A84	POLK DIRECTORY CO
1965	pg A88	POLK DIRECTORY CO
1965	pg A89	POLK DIRECTORY CO
1965	pg A90	POLK DIRECTORY CO
1960	pg A95	POLK DIRECTORY CO
1960	pg A96	POLK DIRECTORY CO
1957	pg A102	POLK DIRECTORY CO

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### **FINDINGS**

#### **CROSS STREETS**

<u>rce</u>

#### **E CARPENTER RD**

pg. A1	EDR Digital Archive
pg. A12	EDR Digital Archive
pg. A24	EDR Digital Archive
pg. A35	EDR Digital Archive
pg. A43	EDR Digital Archive
pg. A52	EDR Digital Archive
pg. A58	POLK DIRECTORY CO
pg. A59	POLK DIRECTORY CO
pg. A66	POLK DIRECTORY CO
pg. A73	POLK DIRECTORY CO
pg. A80	POLK DIRECTORY CO
pg. A85	POLK DIRECTORY CO
pg. A91	POLK DIRECTORY CO
pg. A97	POLK DIRECTORY CO
pg. A98	POLK DIRECTORY CO
	pg. A12 pg. A24 pg. A35 pg. A43 pg. A52 pg. A58 pg. A59 pg. A66 pg. A73 pg. A80 pg. A85 pg. A81 pg. A91

#### **E FRANCES RD**

2014	pg. A2	EDR Digital Archive
2010	pg. A13	EDR Digital Archive
2005	pg. A25	EDR Digital Archive
2000	pg. A36	EDR Digital Archive
1995	pg. A44	EDR Digital Archive
1992	pg. A53	EDR Digital Archive
1985	pg. A60	POLK DIRECTORY CO
1985	pg. A61	POLK DIRECTORY CO
1980	pg. A67	POLK DIRECTORY CO
1980	pg. A68	POLK DIRECTORY CO
1975	pg. A74	POLK DIRECTORY CO
1975	pg. A75	POLK DIRECTORY CO
1970	pg. A81	POLK DIRECTORY CO
1965	pg. A86	POLK DIRECTORY CO
1960	pg. A92	POLK DIRECTORY CO

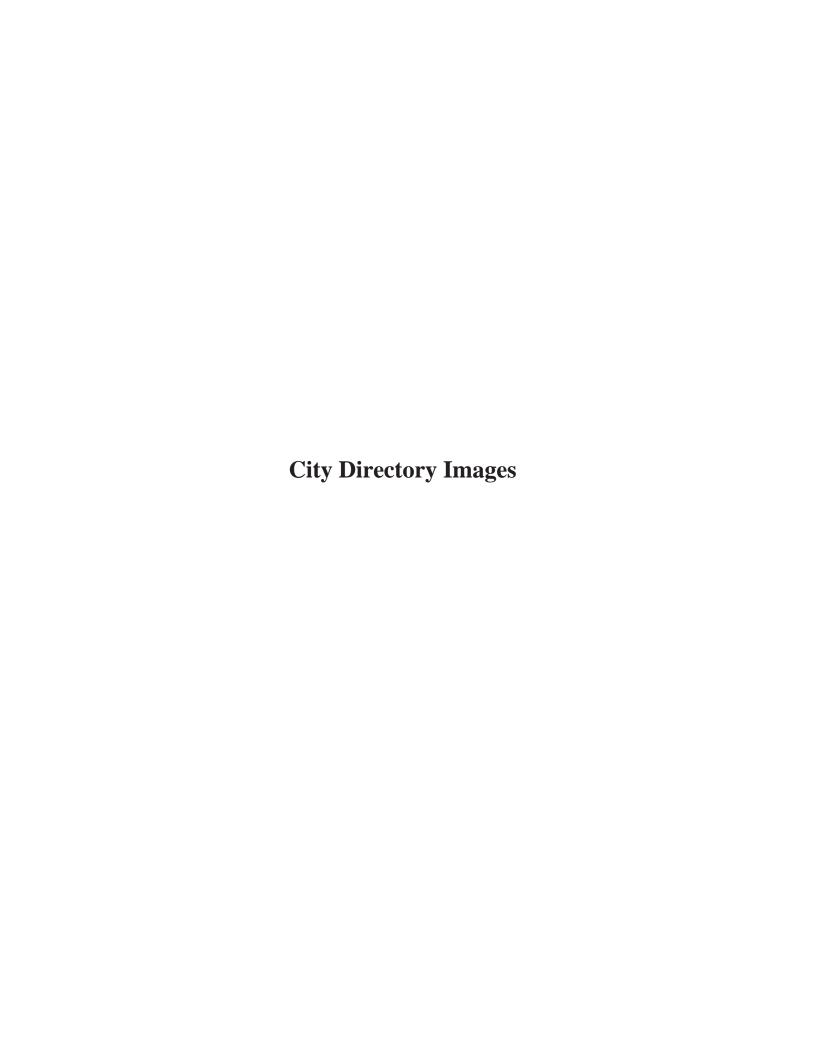
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### **FINDINGS**

<u>Year</u>	CD Image	<u>Source</u>
1957 1957	pg. A100 pg. A99	POLK DIRECTORY CO
E STANLEY RD		

2014	pg. A6	EDR Digital Archive
2010	pg. A18	EDR Digital Archive
2005	pg. A29	EDR Digital Archive
2000	pg. A39	EDR Digital Archive
1995	pg. A47	EDR Digital Archive
1992	pg. A55	EDR Digital Archive
1985	pg. A62	POLK DIRECTORY CO
1980	pg. A69	POLK DIRECTORY CO
1975	pg. A76	POLK DIRECTORY CO
1970	pg. A82	POLK DIRECTORY CO
1965	pg. A87	POLK DIRECTORY CO
1960	pg. A93	POLK DIRECTORY CO
1960	pg. A94	POLK DIRECTORY CO
1957	pg. A101	POLK DIRECTORY CO

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## E CARPENTER RD 2014

1510	ACTION APPLIANCE
	WOLFHOUND GRAPHICS
1518	CANDICE, WRIGHT
1520	BOYD, LINDY J
1906	BEENE, TERESA L
1910	HAIRSTON, KENNETH R
1914	GREENE, VERONICA
1918	KNAPP, JAMES
1926	ARTER, ANTOINETTE M
	WARREN, ANTOINETTE
	WHITE, MARJORIE E
1930	FUQUA, TERENCE
2014	ROSBOROUGH, WILLIAM P
2102	TAYLOR, MARY
2106	ALBIN, ANTHONY M
	TJS TOYS
2114	MOBLEY, MARY

### **EDR** Digital Archive

## E FRANCES RD 2014

1020	DUST TILL GONE
	MUNGER REMODELING
	MUNGER, MICHAEL M
1037	OCCUPANT UNKNOWN,
1053	VANCE, JOHN C
1061	NELSON, ANGELA J
1062	HOBSON, MARY E
1067	DALE, CARL E
1080	ALLEN, ERIC D
1083	DELONEY, CATHERINE M
1088	OCCUPANT UNKNOWN,
1105	ALL N1 TREE & LAWN SERVICE
	CAUDLE, NELLO
	MARK D CAUDLE
1138	SABO, MATTHEW A
1142	SHINABARGER, ROBERT E
1144	FIRMAN, CATHERINE D
1145	OCCUPANT UNKNOWN,
1146	LOCKE, JAMES
1148	BROWNE, ROBERT C
1153	MOONEY, ANGELA L
1154	OCCUPANT UNKNOWN,
1159	BAKER, EYVIN
1160	OCCUPANT UNKNOWN,
1169	ELLIOTT, STACIE R
1176	CHASE, GERALD L
1181	DYER, JEFF
1193	BURMEISTER, KREG S
	LABELLE STEVE
1207	SLATTON, ANTHONY J
1208	BINGHAM SCOTT A
	THIELL, THOMAS
1216	ZOVISHLACK, KAREN E
1223	OCCUPANT UNKNOWN,
1225	POPHAM, WILLIAM E
1233	RICHAR, KATIE
1241	OCCUPANT UNKNOWN,
1252	BREITHAUPT, DAVID B
1263	OCCUPANT UNKNOWN,
1359	RYAN, DUSTIN
1377	GAFFIELD, CHRISTOPHER J
1399	SUPKO, JOYCE D
1423	OCCUPANT UNKNOWN,
1437	HOLDER, R
4051	D&R MOBILE HOME SERVICE
	OCCUPANT UNKNOWN,
4054	RITSEN, KEIN
4096	DESORMEAU, CAROLINE M
4139	WHEELER, WES E
4140	HARRIS, DANIEL H

E FRANCES RD

2014 (Cont'd)

	` '
4	
4159	OCCUPANT UNKNOWN,
4173	PHELPS, SCOTT V
4180	BENNETT, DAVID R
4191	HALL, BRIAN K
4244	JACKSON, JOSEPH D
4274	RUNDELL, JASON
4295	JENNIFER VUCKOVICH MARY KAY
	VUCKOVICH, JOHN J
4298	BURT, SHERYL L
4431	TATE, DUSTIN E
4451	FULLER, DIANNE M
4456	COBLEIGH, LAURENCE L
4465	DEKRUGER, VICKI L
4476	ALLIE, WANITA
4481	LOVELADY, CHAD L
4496	HOOTERVILLE EXP LLC
	WALKER, JAMES L
5015	OTTO, BRYAN A
5031	CARRIVEAU, JASON A
5036	RANDALL, ROBERT E
5039	OUELLETTE, SHARON B
5049	GUIBORD, WALTER C
5050	EASHOO, DONALD
5059	BLASKA, JOHN R
5066	NICHOLS, FOREST J
5069	HALLWOOD, VERNON
5074	WEBB, CURT D
5082	BLACK, KAREN S
5094	OHARE, MYLES A
5095	MUTER, DAVID E
5104	OCCUPANT UNKNOWN,
5116	FRE, DONALD K
5124	STONE, BLANCHE E
5134	BOYD, LPNDA
5146 5156	DOSH, JERALD R
5156 5166	KALLAS, KATHRYN A OCCUPANT UNKNOWN,
5166 5100	SHELBY, LIBERTY D
5188 5106	,
5196 5204	PERSAILS, BRIAN L
5204 5214	DANIELS, DENNIS L HEATH, DANIEL W
5214 5222	BRADLEY, JENNIFER M
5230	OCCUPANT UNKNOWN,
5230 5240	SMITH, JAMES A
5250	STARKINGS, ROBIN A
5260	POTTER, JOSEPH R
5270	LUNSFORD, LESTER E
5275	PAPP, MARY L
5278	LAKE, HERBERT J
5286	WILCOX, BARRY K
0200	meoon, Drunt it

E FRANCES RD 2014 (Cont'd)

	LINANOLOND	2017	(Oont a)
F00 1	DAGTOR FILEFY!		
5294	PASTOR, EILEEN L		
5304	OCCUPANT UNKNOWN,		
5312	PASSE, DAVID S		
5322	GRUBER, FARLEY M		
=0.40	ROY GRUBER		
5348	COONS, ESTELLE		
5354	WALKER, EMORY D		
5355	OCCUPANT UNKNOWN,		
5366	MORRISON, BRENDA J		
	WAGGING TAILS GROOMING		
5371	COUTURE, PAUL F		
5384	LANG, DANIEL T		
5404	THURLOW, CLIFFORD D		
5411	TAYLOR, YVONNE E		
5414	NOYCE, KEITH R		
5417	BAIN, JEAN M		
5427	BIRCH, KEVIN R		
5430	NOWAKOWSKI, GREGORY T		
5444	JEAN, TIMOTHY J		
5454	SCOBLE, RUSSELL W		
5457	MILLER, DANIEL A		
5467	SMITH, RANDY J		
5476	JONES, CHRISTOPHER J		
6023	BAILEY, FORREST R		
6024 6029	PENDER, JACK A FOLEY, WHITNEY J		
6056	HEDRICK, MARK W		
6067	OCCUPANT UNKNOWN,		
6076	PALMER, KELLY L		
6101	JACKSON, MARY I		
6102	BUGBEE, JOSEPH E		
6116	GARCIA, JACKIE J		
6123	LAWRENCE, DAVID W		
6126	KLEIN, FREDERICK D		
6156	KINGSBURY, TODD A		
0.00	PRIDE TRUCKING ENTERPRISE LLC		
6170	RAGAN, TWILA J		
6180	KAM DU CONSTRUCTION		
	OCCUPANT UNKNOWN,		
6194	HOPPER, ELIZABETH K		
6204	WEAVER, DOUGLAS W		
6205	WALKER, SCOTT D		
6236	RYDER, DONNA J		
6252	BECKER, ALISHA		
6253	MARTIN, BUD E		
6263	SAPP, CEDRIC D		
6266	THOMAS, JAMES E		
6282	MOSHER, CAIDON		
6301	NOWLAND, RICHARD G		
6302	WILCOX, THOMAS A		

E FRANCES RD 2014 (Cont'd)

6319	OCCUPANT UNKNOWN,
6339	DELECKI, ERIC W
6351	ANDERSON, JOEL D
	MCAPHOTOGRAPHY
6374	ODELL TIMOTHY L
	ODELL, TIMOTHY L
6375	OCCUPANT UNKNOWN,
6393	WING, MARK A
6405	JOHNSTON, MATTHEW M
6417	KASCO, DANIEL L
6429	OCCUPANT UNKNOWN,
6441	OCCUPANT UNKNOWN,
6453	ABBOTT, JON A
6475	OCCUPANT UNKNOWN,
6485	ELLIOTT, KURT M
6491	LANPHEAR, CLARENCE J
7062	OUELETTE, BRADLEY T
7075	MASON, TERRY J
7076	WARE, MARGIE R
7156	SWILLEY, ANDRE L
7180	MUDGE, GLEN A
7191	GRUBER, FILLIS M
7208	OCCUPANT UNKNOWN,
7213	OCCUPANT UNKNOWN,
7224	CHANDLER, JANICE M
7247	ARBONNE
	HOFFMEYER, RICK C
7291	EVERMAN, TERRY J
7302	TRYTKO, DAN A
7328	BLAISDELL, RODNEY W
7358	LAWRENCE, TERRY W
7367	GRUBER, FERNAN M
7400	RIBINSON, JOHN M
7414	RYDER, MIKE
7415	STEWART, STEVE J
7442	UPTEGRAFF, RICHARD G
7456	SWILLEY, SARAH
7484	BISHOP, TROY A
	SERVICE DEPOT
7500	ABKE, KEVIN W
7528	COLEMAN, ARTHUR T

EDR Digital Archive

## E STANLEY RD 2014

1033	OCCUPANT UNKNOWN,
1037	GAINES, VANESSA S
1047	OCCUPANT UNKNOWN,
1073	STOINSKI, JANET
1097	REINHARDT, TIMOTHY G
1131	DADO, DANNY
1139	OCCUPANT UNKNOWN,
1147	FULCHER, GARY J
1155	ROSE, JEANNE M
1278	MARTIN, FREDDIE N
1290	RUTTER, GERALD R
1297	OLDAKER, DARCY J
1299	SELL, BEATRICE J
1302	OCCUPANT UNKNOWN,
1320	VILLARREAL, LISA M
1439	STORNELLO, DEREK A
2056	NIEMCOW, EMILIA I
2068	WEBSTER, DAVID D
2082	WHITLEY, ALICE
2115	KNICKERBOCKER FARMS
2122	BROWN, CECIL W
2160	MOTEN, JACOB W
2177	OCCUPANT UNKNOWN,
2184	SWEENEY, PATRICK T
2240	JUDD, JEFFREY M
2369 2382	SISCO, VERLIE KNICKERBOCKER, JEFFREY C
2389	OUELLETTE, DAMIAN
2401	RICKARD, ROBERT
2402	BEHRENDT, MARK J
2411	GRAHAM, KENDALL
2434	SHIM, SANDRIA
2439	HUTCHINSON, DEMARKO
2453	CULVER, MARK A
2454	SHRINER, JEFFREY L
2459	OCCUPANT UNKNOWN,
2474	WILSON, ROBERT A
2484	KIRKUM, DAVID W
2499	GATICA, TOMAS R
3025	SHRINER DOUG
	SHRINER, HOWARD D
3034	BROWN, ROOSEVELT L
3047	GATICA ADULT FOSTER CARE HOME
	GATICA, RAY G
3058	BROWN, ROOSEVELT
3060	CAMPBELL, ALEX A
3061	LEATHERS, L
3070	HOPSON, GERALD E
3082	OCCUPANT UNKNOWN,
3096	PALING, WILLIAM J

# E STANLEY RD 2014 (Cont'd)

3106	CSIRKE, SCOTT J
3116	STJAMES, DENNIS S
3121	FITZGERALD, SHEA P
3122	OCCUPANT UNKNOWN,
3162	BROUGHTON, JEFFREY D
3171	MANNING, ALICE M
	MULLALLY, ELLEN E
	SISTERS OF ST JOSEPH
3181	MULLALLY, A
3204	FRANCISCAN FRIARS OF MARY
	PRZEDWIECKI, WALTER F
3309	POLI, RAYMOND D
3317	DELGADO, JOHN J
3350	ABCA BUILDING & REMODELING LLC
	SPOHN, MICHELLE A
3387	DEMAND, DAVID M
3399	CHURCH, PHILLIP J
3417	PINTOSKI, CHRIS
3429	COTNER, KYLE W
3443	PETTENGILL, BARRY D
3483	BAILEY, KRISTA J
4029	DEBBIE DUBBS
	DUBBS, JOHN G
4035	LAZZIO, S
4055	TAYLOR, TRAVIS
4065	BIRDSLEY, LAURA E
4075	BROADTEQ INCORPORATED
	VANCAMP, JEFFREY A
4085	OCCUPANT UNKNOWN,
4095	MATTHEWS, KATHLEEN M
4105	OCCUPANT UNKNOWN,
4124	MOOREHEAD, SEAN A
4125	NICKERSON, TERRANCE L
4147	OBRIEN, KEVIN M
4167	KELLERMAN, JILL P
4181	WORRELL, MITCHELL R
4191	LITTLE, PHILLIP W
4203	WESTON, KELVIN C
4237	CHRISTIAN, DANIE L
4247	DESMOND, GERALD A
4271	DRIER, DOROTHY P

**Cross Street** 

Target Street

#### **Source**

**EDR** Digital Archive

#### N DORT HWY 2014

6065	MARATHON PETROLEUM COMPANY LP
6136	BOSMAN, DAVID
	GUNTHER MOBILE HOME SALES INC
6190	JEFFERSON, LATHAN D
6203	DORT TRANSMISSION CO INC
6339	MARKS PAVING INC
6368	LOOK, BRANDON
6384	BENTLEY MANOR
6409	BURGETT, STEVEN M
6442	PATEL, RICKY
	SHRI SAI NATH LLC
0.454	WHITE SWAN MOTEL
6451	CREED, LOA D
6455	RUNYON, DARREL
6463	BRUCE, TERRY C
6465	LANGWORTHY, STACY L
6470	MCGINNIS, DAVID E
6476	MCKENZIE, GARY G
6485	GOFORTH, GLORIA HOGARD, JOHN
6500 6534	GILLIES CONEY ISLAND INC
6524 7017	CHANDLER AUTO SALES INC
7017	LABORERS INTERNATIONAL N AMER
7024	LABORERS INTL UN N AMER
7025	MUSCLE CARS AND MORE
7023	NORTH DORT TRANSMISSION CO
7040	CUMMER, RUSSELL E
7046	HADDEN, SUNDAY R
7063	GENERAL TOWING & RECOVERY LLC
7074	RAT TECH ENGINEERING
7085	SEVERN, THOMAS M
7092	PHILS KUSTOM AND COLLISIONS
7127	SABOURIN, JOSH D
7134	EDDY, DANIEL S
	JAMES, BENNIE T
7141	BURTON, STANLEY L
7154	LASH INC
7159	STANYER, KATHY
7180	COX AUTOMOTIVE INC
7181	BYRON, THEODORE W
	MANNING, RHONDA M
7191	CARPENTER, BRENDA G
	CARPENTER, CHARLES R
	GILLIE, MERRIT A
	KOSALSKI, FLORENCE A
7200	RAY, DOUGLAS S
7223	GRUBB, TRICIA L
7232	AYOTTE CONSTRUCTION AND RE
7243	OCCUPANT UNKNOWN,
7246	WALKER, ARTHUR G

# N DORT HWY 2014 (Cont'd)

		 (Goile a)	
7257	CUSTOM HANDLING FABRICATORS		
7260	TREECE, GEORGE R		
7269	KRC TURNING LEAVES		
	LAPOINTE, ERIC G		
7293	SKIDMORE, KEVIN S		
7307	QUIETLINE MUFFLER & BRAKE INC		
7315	AUTO MO BEALS INC		
7351	CARTIER, TONY J		
	HATCH, JENNIFER M		
	HOUSER, DARCY		
7050	WOYCIK, JOHN E		
7352	BIG BRUTUS PIZZA		
7353	COBB, WILDA J		
7359	MYERS, TINA L		
7365	MUMFORD, COREEN M		
7077	PEARSON, LINETTE		
7377	FLINT DETACHMENT 155 MARINE CO		
7000	J & L HEATING & COOLING		
7383	OCCUPANT UNKNOWN,		
7406	C W A MANUFACTURING CO INC		
7409	BRYANTS ENGINE REBUILDING		
7411	YEAGER, KIMBERLY A		
7430	PANTER MASTER CONTROLS INC PMC ENVIRONMENTAL TECH LLC		
7462	WATTS, CHARLES L		
7402 7472	OCCUPANT UNKNOWN,		
7472 7477	MERCURY MECHANICAL SUPPLY CO		
7477	RHODES, JAMES L		
7512	D M J CORP		
7525	SHRADER AND SONS		
8005	SMOKERS CORRAL		
8010	WEBSTER & GARNER		
8078	MOUNTAIN INN LOUNGE INC		
8119	OCCUPANT UNKNOWN,		
8150	BIGELOW, JACK E		
8158	OCCUPANT UNKNOWN,		
8172	SMITH, OPA V		
8184	STEEL, JAMES A		
8196	EASTMAN, KRYSTAL L		
	HOLLIS CONTRACTORS GROUP		
8213	NOVAK, JENNIFER E		
8223	RICH BUILDERS		
	RICH, AMBER M		
8261	WAITES, RANDAL R		
	WHITE PINE KENNEL TAXIDERMY		
8271	WRIGH, ALVIN		
	WRIGHT, ALVIN R		
8289	CARSTEN, JOSEPH L		
8311	KAHL, LINDA M		
	VIDA, FRANK J		

# N DORT HWY 2014 (Cont'd)

	,
8313	ENVART STERHEN D
8329	ENYART, STEPHEN D OCCUPANT UNKNOWN,
0029	TKS DETAILS INC
8347	BLUE, WAYNE W
8375	MITTAN, THOMAS F
8376	MANLEY, RICK J
	STACK STOCK & LOCK INC
8405	NEWVINE, JULIE
	STEVEN WAGONNER
	WAGONER, STEVEN W
8425	ALEXANDER, ODIS D
8439	OCCUPANT UNKNOWN,
8457	MCCHESNEY, WILLIAM D
8460	MCCOMBS ENTERPRISES INC
8480	SUPERIOR FURS & LEATHER LLC
8499	CLIO COMMUNITY CH OF NAZARENE
8500	NORTH DORT MANOR LTD
0504	NORTH, DORT
8521	OCCUPANT UNKNOWN,
9007	MARGIES MENAGERIE
9035	DUQUETTE, RONALD L
9051 9059	OCCUPANT UNKNOWN, GEORGES BARBER SHOP
9059	MCFADDEN, JOHN E
9062	BENTLING, ALTA E
3002	GARRIS, JUDY E
	HIGBIE, SHERREL L
	LAMROCK, SCOTT J
	OTTO, JASON
	SHEAHAN, PATRICK E
9076	WORDEN, WILLIAM H
9083	OCCUPANT UNKNOWN,
	TILE MASTERS
9095	FAUR, CHAD S
	WIND PUSHER INC
9115	EVANS, RAYMOND H
9118	PHOENIX STEEL ERECTORS LLC
0.400	WALDORF AND SONS INC
9129	STANLEY, RITA J
9144	5 STAR MEDS
0140	PONY KEG
9149	PATTERSON, MICHAEL BURNS, ANTHONY J
9157 9160	BARNES, JASON C
9177	OCCUPANT UNKNOWN,
9184	MONTNEY, TONIA L
9195	URBANIK, HOPE M
9196	SORSEN, ELIZABETH J
9201	OCCUPANT UNKNOWN,
9222	AVERY, MARK G

# N DORT HWY 2014 (Cont'd)

9247	OCCUPANT UNKNOWN,
9254	LOUS FLOWERS
9313	JUNES FLORAL SHOP
9317	OCCUPANT UNKNOWN,
9333	PALMETER, ROLLIE A
9345	OCCUPANT UNKNOWN,
9359	WILLIAMS, CHRISTINE A
9379	OCCUPANT UNKNOWN,
9389	OCCUPANT UNKNOWN,
9411	BELOTT JOHN & SON
9421	SORGE FIREPLACE SHOP
9429	WILLIAMS, JENNIFER C
9443	OCCUPANT UNKNOWN,
9501	SARGENT, JOEL
9506	FLINT MEMORIAL PARK ASSN
	SERVICE CORP INTERNATIONAL
9513	MOODY, WILLIAM H
9517	OCCUPANT UNKNOWN,

## E CARPENTER RD 2010

1510	INTERSTATE BRANDS CORPORATION
1518	WRIGHT, CANDACE S
1520	DARDEN, MURPHY I
1906	BEENE, TERESA L
1914	GREENE, VERONICA
1918	KNAPP, JAMES H
1926	WARREN, ANTOINETTE
	WHITE, MARJORIE E
2014	ROSBOROUGH, WILLIAM P
2106	ALBIN, ANTHONY M
	TJS TOYS
2114	MOBLEY, MARY

## E FRANCES RD 2010

1020	MCCARTHY, CHRISTINA
1010	MUNGER REMODELING
1046	WOGGERMAN, CHRIS C
1053	B&B MASONRY
	MONICAS HANDS OF LOVE
	VANCE, MONICA M
1061	MCDERMITT, DENNIS R
1062	IRVING, MICHAEL A
1067	DALE, CARL E
1080	RADFORD, KENNARD D
1083	DELONEY, WILLIAM
1088	ELDRIDGE, DONNA J
1096	ELDRIDGE, FJ J
1105	CAUDLE, NELLO
	MARK D CAUDLE
1138	SABO, DENNIS M
1142	SHINABARGER, ROBERT E
1143	FERNLEY, NANCY A
1144	FIRMAN, ALBERT L
1145	J AND A CONSULTANT
1146	LOCKE, GARY F
1148	BROWNE, ROBERT C
4450	BROWNES CONSTRUCTION
1153	GILLETTE, LYNN J
1154	INTAWONG
4450	INTAWONG, KASEM J
1159	BAKER, EYVIN
1160	WILLIAMSON, JOAN M
1168	GALBREATH, KIMBERLY J
1169	DICE, RUSSELL W
4470	ROBINSON RYAN
1176	C GREEN LAWN CARE
4404	SATKOWIAK, MARY M
1181	DYER, JEFF
1193	BURMEISTER, KREG S LABELLE STEVE
1198	FREEMAN, JASON B
1207	SLATTON, ANTHONY J
1207	BINGHAM SCOTT A
1200	THIELL, THOMAS D
1216	ZOVISHLACK, KAREN E
1216	POPHAM, TAMMY S
1233	CLEMENT, MICHAEL C
1252	FARLOW, LORI A LAKESIDE INTERIORS
1263	WILLIAMSON, DANIEL A
1327	LONG BRANCH SALOON
1359	TOWERY, HOLLY K
1377	KATONA, STEVE L
1377	STINSON, GREGORY J
1000	OTHIOGIA, OILEOUTT 0

	E FRANCES RD	2010	(Cont'd)	
1423	HICKS WAITED A			
4030	HICKS, WALTER A JOHNNY MNEMONIC PRODUCTIONS			
4030	SEWELL, GARY T			
4051	D&R MOBILE HOME SERVICE			
4031	WIECOREK, RICHARD D			
4054	RITSEN, RICHARD R			
4096	WIECOREK, PHYLLIS J			
4139	WHEELER, WES E			
4140	HARRIS, DANIEL H			
4159	THURLOW, CLIFFORD D			
4173	PHELPS, SCOTT V			
4180	BUDZIAK, MARTIN R			
4191	HALL, BRIAN K			
4244	VETTURINI, BECKIE A			
4295	JENNIFER VUCKOVICH MARY KAY			
	VUCKOVICH, JOHN J			
4298	BURT, SHERYL L			
4326	FENNER, RONALD D			
4431	ANDERSON, DANIEL D			
4451	FULLER, DIANNE M			
4456	COBLEIGH, LAURENCE L			
4465	DEKRUGER, EDWARD M			
4476	ZUCCARO, SALVATORE			
4481	LOVELADY, CAROL M			
4496	HOOTERVILLE EXP LLC			
	WALKER, JAMES L			
5015	BENNETT, JOHN A			
5023	DAVIS, PATRICIA A			
5031	MICHELLE LONG			
5036	RANDALL, ROBERT E			
5039	OUELLETTE, SHARON B			
5049	GUIBORD, WALTER C			
5050	EASHOO, DANIEL K			
5059	BLASKA			
F000	BLASKA, DEBRA S			
5066	NICHOLS, FOREST J			
5069	HALLWOOD, TONYA M			
5074	WEBB, CURT D			
5082 5094	CSIRKE, GARRETT OHARE, MYLES A			
5094	MUTER, DAVID E			
5104	CRYSTAL, KATHERINE A			
5116	FRE, DONALD K			
5124	STONE, BLANCHE E			
5134	BOYD, CATHY L			
5146	DOSH, JERALD R			
5156	KALLAS, WILLIAM A			
5166	CUNEAZ, HARRY A			
5188	CRITTENDEN DEANNA M			
	MERLIN & SONS			

# E FRANCES RD 2010 (Cont'd)

5188	ZOELLNER, ALBERT J
5196	GIRODAT, BRANDON
5204	DANIELS, DENNIS L
5214	HEATH, MILTON H
5222	BRADLEY, JAMES W
5250	STARKINGS, ROBIN A
5260	ABLE FORKLIFT REPAIR
	POTTER, JOSEPH R
5270	LUNSFORD, LESTER E
5275	PAPP, MARY L
5278	LAKE, HERBERT J
5286	WILCOX, BARRY K
5294	PASTOR, EILEEN L
5304	MILLER, JACKSON J
5312	PASSE, DAVID S
5322	GRUBER, ROY N
	ROY GRUBER
5348	COONS, ESTELLE
5354	PHARR, DAVID
5366	MORRISON, BRENDA J
=00.4	WAGGING TAILS GROOMING
5384	CYNTHIA L LEWIS ATTORNEYS LAW
= 40.4	LANG, DANIEL
5404	HODGE, CYNTHIA F
	IN THE HOUSE
5411	TAYLOR, CHARLES M
5414	NOYCE, KEITH R
5417	BAIN, JEAN M
5427	BIRCH, KEVIN
5430	NIEMAN, MARK A
5444	JEAN, TIMOTHY J
5454	HALL, MATTHEW K
5457	MILLER, DANIEL A
5467	SMITH, RANDY J
5476	JONES, CHRISTOPHER J
6023	BAILEY, ROGER M
6024	PENDER, JACK A
6029	PARRISH, GARY M
6056	HEDRICK, MARK W
6067	HOOPS, DAVID S
6076 6101	PALMER, KELLY L BOBS STUMP GRINDING
6101	DAVE TREE GUY TREE SVC
6102	JACKSON, ROBERT D
	BUGBEE, JOSEPH E
6116	BLEVINS, MARK A
6123	LAWRENCE, DAVID W
6126 6156	FRECHETTE, ANNETTE S KINGSBURY, TODD A
0130	TODD KINGSBURY DRYWALL
	TODD KINGODOK I DK I WALL

### E FRANCES RD

2010

(Cont'd)

6170	DACAN TWILA I
6170 6180	RAGAN, TWILA J KAM DU CONSTRUCTION
6194	HOPPER, STEVEN D
6204	WEAVER, DOUGLAS W
6205	WALKER, SCOTT D
6236	RYDER, DONNA J
6252	BECKER, MICHAEL E
6263	SAPP, CEDRIC D
6266	THOMAS, JAMES E
6282	MOSHER, CAIDON
6301	NOWLAND, RICHARD G
6302	WILCOX, THOMAS A
6319	KING, BERNARD W
6339	BOWSHER, JASON J
6351	ANDERSON, MELISSA
6363	JONES SCOTT
6374	ODELL, TIMOTHY L
6393	WING, MARK A
6405	JOHNSTON, MATTHEW M
6417	NICHOLS, DAVID E
6429	POWELL, KENNETH H
6441	HRADECKY, RONALD J
6453	ABBOT, JON
6465	ABBOTTS PLUMBING
0403	FUELZONE SCHASCHECK EDANCIS C
6475	SCHASCHECK, FRANCIS G SELL, APRIL
6485	ELLIOTT, KURT M
	LAMPHEAR, CLARENCE J
6491 6565	SCHOSCHECK, MILDRED P
7062	BRAD OUELLETTE BUILDERS
7002	OUELETTE BOILDERS  OUELETTE, BRADLEY T
7075	MASON, TERRY J
7076	WARE, KERMIT
7076	HOVEY, DONNA I
7156	SWILLEY, RD D
7180	GILMORE, KIMBERLEY
7191	GRUBER, FERNAN M
7208	GUAJARDO, JUAN L
7213	FOLTS, KEITH D
7224	CHANDLER, RON A
7247	HOFFMEYER, RICK C
7291	SMITH, SHEILA L
7302	TRYTKO, DAN A
7367	GRUBER, FERNAN M
7400	YEO, STEVE P
7414	RYDER, MIKE
7415	STEWART, STEVE J
7442	UPTEGRAFF, RICHARD G
7484	SERVICE DEPOT
7 707	OLIVIOL DEI OT

E FRANCES RD 2010 (Cont'd)

ZOVISHLACH, EDWARD W 7484 ABKE, KEVIN W 7500 7528 NALER, ROBERT B

## E STANLEY RD 2010

1007	DICKENS TEDESA A
1027	DICKENS, TERESA A
1033	DUNCKEL, DUANE K
1037	GAINES, VANESSA
1047	CARNEY PLUMBING
4070	NEWTON, ROBERT J
1073	ETHERIDGE, JAMES P
4007	KEEPING RECORD STRAIGHT
1097	COULTER, PATRICIA J
1139	BLANDFORD, NORMA E
1147	FULCHER, GARY J
1155	ROSE, JEANNE M
1297	OLDAKER, DARCY J
1299	SELL, ALONZO H
1302	LOWRY, MICHAEL D
1320	VILLAREAL, LUIS
1439	CHRISTOPHER KENNETH M
0050	CHRISTOPHER, LINDA L
2056	NIEMCOW, EMILIA I
2068	WEBSTER, DAVID D
2115	KNICKERBOCKER FARMS
2122	BROWN, CECIL W
2160	MOTEN, JACOB W
2176	AGGRESSIVE DEMOLITION
	WATKINS OLIE H
0477	WATKINS, OLIE H
2177	ALSTEEN, MARTIN H
2184	SWEENEY, PATRICK T
2240	JUDD, JEFFREY M
2369	HAYWOOD, VERLIE
2382	KNICKERBOCKER, LAURIE M
2401	RICKARD, ROBERT
2402 2411	BEHRENDT, MARK J COTTON, KIWANA M
2411	CALDWELL, FRANCINE V
2434	ROYAL MORTGAGE
2439	HUTCHINSON, ED I
2459 2454	SHRINER, JEFFREY L
2459	NOWACZYK, THOMAS L
2459 2474	WILSON, MARY A
2474	MARTIN, LONNELL L
2484	KIRKUM, DAVID W
2499	MULLINS, ALVIN J
3025	SHRINER, HOWARD D
3023	BROWN, ROOSEVELT O
3047	GATICA ADULT FOSTER CARE HOME
3047	GATICA ADULT FOSTER CARE HOME  GATICA, RAY G
3058	CVR APPRAISALS
5050	ROBINSON, CAPUS V
3060	CAMPBELL, ALEX A
3061	LEATHERS, LOIS M
0001	

<u>Target Street</u> <u>Cross Street</u>

<u>Source</u>

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E STANLEY RD 2010 (Cont'd)

3070	HOPSON, GERALD E
3082	WHITLEY, ALICE M
3089	LEATHERS, RICHARD F
	RC & SONS REMODELING
3106	CSIRKE, SCOTT J
3116	STJAMES, DENNIS P
3121	FITZGERALD, SHEA P
3162	BROUGHTON, JEFFREY D
3171	MULLALLY, ELLEN E
	SISTERS OF ST JOSEPH
3181	MULLALLY, AGNES C
3204	ELI, DANIEL
	FRANCISCAN FRIARS OF MARY
3309	POLI, RAYMOND D
3317	DELGADO, JOHN J
3350	ABCA BUILDING & REMODELING LLC
	MCILMURRAY, WILLIAM
3387	DEMAND, DAVID M
3399	CHURCH, PHILLIP J
3443	PETTENGILL, BARRY D
3483	DELLAPOSTA, RANDALL E
	TALIAN MARKET
4029	DEBBIE DUBBS
	DUBBS, JOHN G
4035	LAZZIO, S
4065	BIRDSLEY, LAURAJEAN E
4075	FERNANDEZ, KRISTAL L
4005	MINORITY AUTO SALES
4085	BANNOW, JAMES R
4005	FRESH AND TASTY LLC
4095	MATTHEWS, KATHLEEN M
4105	LINCE, GORDON E
4115	SANCHEZ, JANET E
4124	MOTEN, GEORGE A
4125	NICKERSON, TERRANCE L
4147	OBRIEN, KEVIN M
4167	KELLERMAN, JILL P LITTLE, PHILLIP W
4191 4203	WESTON, KELVIN C
4215	DYSON, LEE
4237	CHRISTIAN, DANIE L
4247	DESMOND, GERALD A
4271	DRIER, DOROTHY P
4274	SIMMONDS, EDWARD J
7417	Similario, EDWARD 0

## N DORT HWY 2010

6065	MARATHON PETROLEUM COMPANY LP	
6129	BIVINS INC	
	GUARDIAN ALARM CO	
	IVIE RONALD F DR	
6136	GUNTHER MOBILE HOME SALES INC	
	GUNTHER, ANNA M	
	SALES, GUNTHER M	
6203	DORT TRANSMISSION CO INC	
6339	MARKS PAVING INC	
6369	DOUBLE K LAWN AND PROPERTY MGT	
6384	BENTLEY MANOR	
6406	TODD CO	
6409	LUMM, SHASMINE	
6439		
6442	•	
	WHITE SWAN MOTEL	
6455	RUNYON, DARREL L	
6463	MUNGER, KIMBERLY	
6470	SLUSHBUSTER PARTY RENTAL	
6485	JACKSON, WAYNE T	
6500	HOGARD, JONATHON L	
6524	GI RES	
7047	GILLIES CONEY ISLAND INC	
7017		
7024	LABORERS INTERNATIONAL N AMER	
7024	LABORERS INTL UN N AMER	
7031	NORTH DORT TRANSMISSION CO	
7040 7046	CUMMER, RUSSELL E RICHARDS, JUANITA	
7046	GENERAL TOWING & RECOVERY LLC	
7003	TILCH, BRENDA M	
7073	RAT TECH ENGINEERING	
7092	SPOILER WING KING	
7127		
7134	ALLEN, RUTH	
	GROW, KATHRYN A	
	JAMES, BENNIE T	
	KOHAGEN, RICHARD	
	LONG, ALBERT J	
	WALLACE, CYREETA L	
7154	DEEP WOODS RECOVERY	
7180	CAR LOT	
	MANHEIM AUCTIONS INC	
7181	DOSTAL, GERALD J	
	MCFADDEN, MECHELLE D	
	RITTER, MEGAN	
7191	GLAY, DALE A	
	JORDAN, KATHY	
	LAVERGNE, LISA D	
	WHITMAN, RANDY	

# N DORT HWY 2010 (Cont'd)

	(0.000	/
7200		
7223	,	
7232		
7246	,	
7257		
	MIKE S AUTO PARTS	
7293		
7307		
7315		
7351	,	
	WOYCIK, JOHN E	
7352		
7353	•	
7359	,	
7365		
	EVANS, ERWIN M	
7077	MYERS, TINA	
7377		
7000	J & L HEATING & COOLING	
	SEWELL, LEE	
7406		
7400	HAWKLAKE LODGE	
7409 7420		
7430		
7435		
7462	•	
7463	B DONNS APPLIANCE SERVICE VETTS FEEDS & PET SUPPLY	
7477		
7477 7491		
7491		
7512	•	
8005		
0000	SMOKERS CORRAL	
8033		
8043		
8067		
0001	VETERAN CONSTRUCTION SVCS LLC	
8078		
8107		
8150		
8172	,	
8196	·	
	HOLLIS CONTRACTORS GROUP	
	HOLLIS, BRIEN J	
8223	RICH BUILDERS	
	RICH, KIM J	
8261		
8289	CARSTEN, JOSEPH L	
8311	KAHL, LINDA M	

N DORT HWY 2010 (Cont'd)

	(6 5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8329	TKS DETAILS INC
8347	GREVE, SCOTT L
8373	WOODS, RICHARD L
8375	MITTAN, THOMAS F
	SHARON STUFF
8376	STACK STOCK & LOCK INC
8405	NEWVINE, JULIE
	STEVEN WAGONNER
	WAGONER, STEVEN W
8457	MCCHESNEY, WILLIAM D
8460	MCCOMBS ENTERPRISES INC
8480	SUPERIOR FURS & LEATHER LLC
8500	NORTH DORT MANOR LTD
8521	GRIEBE, WILLIAM J
9007	MARGIES MENAGERIE
9051	COUNCE, GLADYS M
9059	GEORGES BARBER SHOP
9062	MALLETTE, HOMER
	PATRICK SHEAHAN CONSTRUCTION
	SHEAHAN, PATRICK E
0000	SMITH, TERA
9083	TILE MASTERS
9095	FAUR, CHAD S SAFE & SOUND MINI STORAGE
	WIND PUSHER INC
9115	EVANS, RAYMOND H
9118	PHOENIX ERECTORS INC
3110	PHOENIX STEEL ERECTORS LLC
	PSE LLC
	WALDORF AND SONS INC
9144	PONY KEG
9149	DOAK, JENNIFER
9157	BURNS, JENNIFER L
9160	DUNCAN DALE
	DUNCAN DALE V
9195	MCGRAW, SAM E
9222	AVERY MARK G
	AVERY, MARK G
9247	MCGOWAN, VIRGINIA L
9254	LOUS FLOWERS
9313	KEELY MARLENE
9345	FIRST CHOICE REMODELING
9359	WILLIAMS, JANE
9389	BELOTT, JAMIE M
	JACKS AUTO PURCHASING
9411	BELOTT JOHN & SON
9421	SORGE FIREPLACE SHOP
9429	WILLIAMS, JENNIFER C
9501	SARGENT, JOEL
9506	FLINT MEMORIAL PARK ASSN

> N DORT HWY 2010

(Cont'd) 9506 HILLCREST MEMORIAL CO SERVICE CORP INTERNATIONAL 9513 WHITEHEAD, NICOLE 9517 YOUNG, JAMES R

## E CARPENTER RD 2005

1502	HARRIS, DARRYL
1510	INTERSTATE BRANDS CORPORATION
1518	WRIGHT, LAMAR B
1520	BOYD, KHALIFAH S
1720	PEB INC CARPENTER SUPER
1910	ESSETT, CHARLES
1918	KNAPP, JAMES H
1926	CAIN, NORMIE J
2014	ROSBOROUGH, WILLIAM P
2106	ALBIN, ANTHONY M
2114	LESTER, CAROLYN
2118	FANKO, JOHN S
2122	GRIFFIN, HELEN
2169	WITHERSPOON, WILLIAM E

4007	DELADOCA JOSEPH I
1037	DELAROSA, JOSEPH J
1053 1061	RODGERS, JOSEPH
1067	MCDERMITT, DENNIS DALE, CARL E
1087	RADFORD, KENNARD D
1083	DELONEY, WILLIAM
1088	ELDRIDGE, DONNA J
1096	ELDRIDGE, FJ J
1105	WOODS, C
1138	SABO, DENNIS M
1143	FERNLEY, NANCY A
1144	FIRMAN, ALBERT L
1145	GLAY, DON A
1146	LOCKE, GARY F
1148	BROWNE, ROBERT C
1140	BROWNES CONSTRUCTION
1154	INTAWONG, KASEM J
1159	BAKER, EYVIN
1169	ROBINSON, RONALD W
1176	GRAVES, ROBERT L
1181	DYER, JOHN D
1193	BURMEISTER, KREG S
1207	KOOS, JOE O
1208	THIELL, THOMAS D
1216	TYREE, SANDY E
1223	COGGINS, MICHAEL D
1225	POPHAM, TAMMY S
1233	CLEMENT, M
1252	BREITHAUPT, DAVID B
1263	WILLIAMSON, DANIEL A
1327	LONG BRANCH SALOON
1359	MILLER, DAVID J
1377	KATONA, JOSEPH J
1399	STINSON, GREGORY J
1423	HICKS, WALTER A
4051	D&R MOBILE HOME SERVICE
	WIECOREK, RICHARD D
4054	RITSEN, RICHARD R
4096	BROWNSON, LUELLA M
4139	WHEELER, TRISHA M
4140	HARRIS, DANIEL H
4173	THURLOW, CLIFFORD
4191	HALL, BRIAN K
4298	BURT, SHERYL
4326	HOUGH, VIVIEN K
4456	COBLEIGH, LAURENCE L
4476	ZUCCARO, SALVATORE
4496	WALKER, JAMES L
5015	BENNETT, JOHN A
5023	DAVIS, COURTNEY L

2005

(Cont'd)

	· ,	_
5021	DI AVE TIMOTHY I	
5031	BLAKE, TIMOTHY L MICHELLE LONG	
	TIM BLAKE	
5036	RANDALL, ROBERT E	
5039	OUELLETTE, SHARON B	l
5049	GUIBORD, WALTER C	l
5050	EASHOO, DANIEL K	l
5059	BLASKA, DEBRA S	l
5066	NICHOLS, FOREST J	l
5069	HALLWOOD, TONYA M	l
5074	WEBB, CURT D	l
5082	BLACK, KAREN S	l
5094	OHARE, MYLES A	l
5095	MUTER, DAVID E	l
5104	CRYSTAL, KATHERINE A	l
5116	FRE, DONALD D	l
5124	STONE, EDWARD E	l
5146	DOSH, JERALD R	l
5156	KALLAS, WILLIAM A	l
5166	CUNEAZ, HARRY A	l
5188	CRITTENDEN DEANNA M	l
	ZOELLNER, ALBERT J	l
5196	BRYAN, JEFFREY K	l
5204	DANIELS, DENNIS L	l
5214	HEATH, MILTON H	l
5222	BRADLEY, JAMES W	l
5230	WILLIAMS, GREGORY R	l
5240	SMITH, MICHAEL D	l
5250	STARKINGS, ROBIN A	l
5260	POTTER, JOSEPH R	l
5270	LUNSFORD, LESTER E	l
5275	PAPP, SHARON M	l
5278	LAKE, HERBERT J	l
5286	WILCOX, BARRY K	l
5294	PASTOR, L JACKSON, MELVIN J	l
5304 5312	PASSE, DAVID S	l
5312	GRUBER, ROY N	l
3322	ROY GRUBER	l
5348	COONS, THOMAS A	l
5354	WALKER, EMORY D	l
5355	STEVENS, RICHARD K	l
5366	MORRISON, STEVE E	l
5384	LEWIS, CYNTHIA L	
5404	HODGE, CYNTHIA E	
5411	TAYLOR, CHARLES C	
5414	NOYCE, KEITH R	
5417	BAIN, JEAN M	
5427	BIRCH, RON A	
5430	SMITH, ROBERT K	

2005

(Cont'd)

	21101102		(Golfie G)
5444	JEAN, TIMOTHY J		
5454	SCOBLE, TERRI L		
5457	MILLER HEATING		
	MILLER, DANIEL A		
5467	KELLEY, JAMIE L		
5476	JONES, CHRISTOPHER J		
6023	OLMSTEAD, BENJAMIN		
6024	PENDER, JACK A		
6056	HEDRICK, MARK W		
6067	HOOPS, JUDITH G		
6076	ALBIN, MARK A		
6101	JACKSON, ROBERT D		
6102	SCOTT, JAMES L		
6126	FRECHETTE, ANNETTE S		
6156	SIGOURNEY, TRACY L		
6170	RAGAN, TWILA J		
6194	HOPPER, STEVEN D		
6204 6205	WALKER SCOTT D		
6252	WALKER, SCOTT D BECKER, MICHAEL E		
6263	SAPP, CEDRIC D		
6266	THOMAS, JAMES E		
6301	NOWLAND, RICHARD G		
6302	BARKER, LANCE N		
6319	KING, DONNA		
6351	SELLEY, KATHERINE A		
6374	ODELL, TIMOTHY L		
6393	WING, MARK A		
6405	JOHNSTON, MATTHEW M		
6417	NICHOLS, DAVID E		
6429	POWELL, KENNETH H		
6441	HRADECKY, RONALD J		
6465	SCHASCHECK, FRANCIS G		
6475	SELL, APRIL		
6485	ELLIOTT, KURT M		
6565	SCHOSCHECK, MILDRED P		
7062	BRAD OUELLETTE BUILDERS		
	OUELETTE, BRADLEY T		
7075	MASON, TERRY J		
7076	SIARD, OLIVIER P		
7105	HOVEY, DONNA I		
7156	SWILLEY, RD D		
7208	ADVANCED AUTO REPAIR		
	GUAJARDO, JUANA M		
7213	FOLTS, KEITH D		
7224	CHANDLER, RON A		
7247	HOFFMEYER, RICHARD C		
7291	EVERMAN, DELORES O		
7302	TRYTKO, DAN A		
7328	BLAISDELL, RODNEY W		

	E FRANCES RE	2005	(Cont'd)	
7050				
7358 7367	SZIKSZAY, WAYNE J			
7400	GRUBER, FERNAN M YEO, STEVE P			
7414	RYDER, MIKE			
7415	STEWART, STEVE J			
7442	UPTEGRAFF, RICHARD G			
7484	SERVICE DEPOT			
	ZOVISHLACH, EDWARD W			
7500	FREEL, RAYMOND E			
7528	NALER, RAE A			

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### E STANLEY RD 2005

4007	DIOLENO TEREON A
1027	DICKENS, TERESA A
1033	DUNCKEL, DUANE K
1044	FOX, EVA J
1047	CARNEY PLUMBING
4070	NEWTON, ROBERT J
1073	ETHERIDGE, M
	KEEPING RECORD STRAIGHT
1097	COULTER PATRICIA J
1131	RAU, KEITH M
1139	BLANDFORD, NORMA E
1147	FULCHER, GARY J
1155	ROSE, JEAN M
1217	CARTER-JONES LUMBER COMPANY
1278	MARTIN, FREDDIE N
1290	RUTTER, GERALD R
1297	OLDAKER, JAMES W
1302	LOWRY, MICHAEL D
1320	VILLARREAL, LISA M
1439	CHRISTIAN, CHRISTOPER
	CHRISTOPHER KENNETH M
2056	MARKEE, BOBBY A
2068	WEBSTER, DAVID D
2115	KNICKERBOCKER FARMS
	KNICKERBOCKER, PAUL H
2122	BROWN, CECIL W
2160	MOTEN, JACOB W
2176	COX, ROBERT C
2177	ALSTEEN, PATRICIA A
2240	JUDD, JEFFREY M
2369	HORTON, JOSEPH
2401	HARPER, TROY L
2411	COTTON, ADAM J
2424	HANNER, MELVIN L
2434	CALDWELL, WALTER A
2439	HUTCHINSON, ED
2444	SMITH, SHARON
2453	CULVER, MARK A
2454	SHRINER, JEFFREY L
2474	WILSON, ROBERT A
2477	MARTIN, LONNALL L
2499	MULLINS, ALVIN J
3025	SHRINER, HOWARD D
3034	BROWN, ROOSEVELT L
3047	GATICA, RAY G
3058	ROBINSON, CAPUS A
3060	CAMPBELL, ALEX A
3061	LEATHERS, LOIS M
3070	HOPSON, GERALD E
3082	WHITLEY, ALICE M
3089	ADRENALINE SPORTS

> E STANLEY RD (Cont'd) 2005

0000	LEATHERS BIOLIARD
3089	LEATHERS, RICHARD F
3096	SHRINER, SANDRA D
3116	STJAMES, DENNIS P
3121	PILLSBURY, DANIEL W
3162	BROUGHTON, JEFFREY D
3171	DENEAU, MARCELLA M
3204	FRANCISCAN FRIARS OF MARY
3309	POLI, RAYMOND D
3317	DELGADO, JOHN J
3377	BUCKLE, LARRY E
	FISH PATROL CHARTERS
3387	DEMAND, MICHELLE M
3399	CHURCH, PHILLIP J
3417	PINTOSKI, PERRY K
3429	WILSON, BUFORD J
3483	DELLAPOSTA, RANDALL E
4029	DUBBS, GREG
4035	LAZZIO, S
4055	DEMOINES JOSEPH P
4065	BIRDSLEY, LAURAJEAN E
4075	CARLSON, KRISTAL L
4085	KENT S CARPET SERVICE
	SPARTAN FLOORS
	WALTON, KENT M
4095	MATTHEWS, KATHLEEN M
4105	LINCE, GORDON E
4115	POTTER, DONNA B
4124	MOTEN, GEORGE A
4125	NICKERSON, TERRANCE L
4147	OBRIEN, KEVIN M
4167	KELLERMAN, JILL P
4181	PROFFITT, JACKIE W
4191	LITTLE, PHILLIP W
4203	WESTON, KELVIN C
4215	AVALON VISION SOLUTIONS LLC
	DBK & ASSOCIATES
	WILLIAMSON, WILLIAM J
4237	CHRISTIAN, DAN L
4271	DRIER, DOROTHY P
4274	SIMMONDS, EDWARD J
4291	MARSHALL, CHARLES L
4231	MANOI IALL, OF IARLES L

## N DORT HWY 2005

6065	MARATHON ASHLAND PETROLEUM LLC
6129	BIVINS GOURMET BARBECUE SAUCE
0123	BIVINS INC
	GRDN ARMORED SECURITY
	GUARDIAN ALARM CO
6136	GUNTHER MOBILE HOME SALES INC
0.00	MOLINA, MARIA D
6190	JEFFERSON, BERNADEL
6203	DORT TRANSMISSION CO INC
	MARKS PAVING INC
6368	BLOSS, JENNIFER
6384	BENTLEY, ROBERT
6406	TODD, JAMES E
6409	LEE, THEODORE W
	TIP O-LE DOGGIE MOTEL
6442	WHITE SWAN MOTEL
6451	CREED, LOA D
6463	BRUCE, TERRY C
6465	GOFORTH, ROBERT E
6470	BLAINE, TERESA M
0.470	MCGINN DAVE & TERESA
	PELLAND, KRYSTLE A
6485 6500	JACKSON, WAYNE T HOGARD, JONATHON L
6524	FARRANDVILLE BAR & GRILL
0324	GILLIES CONEY ISLAND INC
	MAPMAG LLC
7017	CHANDLER AUTO SALES INC
7024	LABORERS INTERNATIONAL N AMER
	LABORERS INTL UN N AMER
7025	MEGA FOODS
7031	NORTH DORT TRANSMISSION CO
7040	CLARK, FERN
7046	PEKINGESE N PRROT LVERS KENNEL
	RICHARDS KIRK D
	RICHARDS, KIRK D
7063	R & S AUTO SALES
	REINHARDT TIMOTHY W & SUSAN K
7073	MCKENNEY, BRENDA
7074	RAT TECH ENGINEERING
7134	JAMES, B
7154	LONG, ALBERT TRW TOWING & STORAGE INC
7154	WOODRING, JAMES K
7180	MANHEIM AUCTIONS INC
7181	FORGETTE, ALBERT A
7191	BERTT, PATRICIA
	SPEARY, JULIE
7192	PHILIPSEN, JEFFREY S
7200	CLINE, CLAUDE R

# N DORT HWY 2005 (Cont'd)

		 (Oone a)
7223	ANDERSON, JOSEPH S	
7232	AYOTTE CONSTRUCTION AND RE	
7243	VANALST, ROGER D	
7246	WALKER, ARTHUR G	
7257	CUSTOM HANDLING FABRICATORS	
7260	TREECE, GEORGE R	
7269	CAMPBELL, PATRICK G	
7293	SKIDMORE, KEVIN S	
7307	QUIETLINE MUFFLER & BRAKE INC	
7315	AUTO MO BEALS INC	
7351	CAMPBELL, RONALD	
	SALLAS, ANDREA	
	WINTER, JANELLE	
	WOYCIK, JOHN E	
7352	BIG BRUTUS PIZZA	
	WEAVERS COUNTER TOP & CABLNETE	
7365	COMMODITY BUILDERS	
	EVANS, ERWIN M	
7377	J & L HEATING & COOLING	
7383	VANHORN, TURESSA	
7389	SEWELL, AMBER L	
7397	K S ENTERPRISES INC	
7406	C W A MANUFACTURING CO INC	
7409	BRYANTS ENGINE REBUILDING	
7411	ROBERTS, TARA	
7426	WACO MANUFACTURING	
7430	PANTER MASTER CONTROLS INC	
7463	DONNS APPLIANCE SERVICE	
	VETTS FEEDS & PET SUPPLY	
7472	KENDRICK, STEVEN D	
7477	MERCURY MECHANICAL SUPPLY CO	
7491	BILLYS ROADHOUSE INC	
7512	D M J CORP	
7525	B & G MUFFLER & BRAKES	
	DORT & MT MORRIS AUTO SERVICE	
	GLORIA HENSLEY	
8005	B&J SMOKERS DISCOUNT OUTLET	
8010	AMIRA ENTERPRISES LTD	
	TAX TYME INC	
8033	WATERSTONE VILLAGE BANQUET CEN	
8043	C C & H WELDING	
	HARCZ, CHRISTOPHER J	
8067	CORK ASSOC	
8107	LYONS WELL DRILLING INC	
8119	CLARK, STANLEY R	
8150	BIGELOW, BEN L	
8172	SMITH, O V	
8196	HOLLIS, BRIEN	
8213	HOWLAND, WILLIAM W	
8223	RICH BUILDERS	

# N DORT HWY 2005 (Cont'd)

		 (Some a)	
8233	RICH, KIM J		
8238	WHITNEY CONSTRUCTION COMPANY		
8261	WAITES, RANDAL R		
8271	FIAS, OLGA M		
8313	FREDELL, ROBIN L		
8329	•		
8347	BLUE, TIMOTHY W		
8373	WOODS, RICHARD J		
8375	MITTAN, THOMAS F		
8376	CREATIVE CAKES BY TINA		
	PARKS, STEPHEN L		
0.405	STACK STOCK & LOCK INC		
8405	WAGONER, STEVEN W		
8457 8460	MCCHESNEY, WILLIAM D MC COMBS ENTERPRISES INC		
8499	MOUNT MORRIS CHURCH NAZARENE		
8500	NORTH DORT MANOR LTD		
8521			
9007	ALL IN ONE AUTO BODY		
9001	MARGIES MENAGERIE		
9059	BROOKS, KATHY E		
0000	GEORGES BARBER SHOP		
9062	BALLARD, MICHAEL		
0002	SHEAHAN, PATRICK E		
	SHEANAN, PAT		
	VALKOUN, RANDEAN M		
9076	WORDEN, WILLIAM H		
9083	TUTTLE, CHERRYL		
9095	SAFE & SOUND MINI STORAGE		
	WIND PUSHER INC		
9118	ADVANCED POURED WALLS		
	WALDORF & SONS INC		
	WALDORF, DONNA		
9144	PONY KEG		
9149	STANLEY, YONG C		
9157	SAGADY, DENNIS F		
9184	WIEDERHOLD, JULIAH M		
9201	HANSON, JEREMY J		
9222	AVERY MARK G		
0054	AVERY, MARK G		
9254	LOUS FLOWERS		
9313	KEELY MARLENE		
9317	PAWLI, COLLEEN		
9345 9359	BULLARD, ARLENE		
9339	BELOTT JOHN DUVALL, STACEY R		
9411	BELOTT JOHN & SON		
9421	SORGE FIREPLACE SHOP		
9429	GRAY, TARA A		
9506	FLINT MEMORIAL PARK ASSN		

N DORT HWY 2005 (Cont'd)

9513 9517	MOTT, CHARLES W THOMAS, EUGENE L

#### E CARPENTER RD 2000

	E CARPENTER RD	2000
1510 1910 1914 2014 2106 2138 2169	INTERSTATE BRANDS CORPORATION ESSETT, CHARLES THOMPSON, V Y ROSBOROUGH, OWEN ALBIN, ANTHONY M FLINT NORTHWESTERN INC WITHERSPOON, WILLIAM E	

1037	DELAROSA, DEBORAH
1046	MCGRIFF, ELMER
1053	BOWNS, MICHAEL S
1059	BAKER, MARGIE E
1067	DALE, CARL E
1080	RADFORD, KENNARD
1088	ELDRIDGE, DONNA
1138	SABO, MATTHEW A
1142	SHINABARGER, ROBERT E
1145	WINTERLEE, PHYLLIS
1148	BROWNE, ROBERT C
1153	MARKLEY, DAVID J
1168	STADLER, LEO L
1169	DELLING, JOSEPH R
1208	THIELL, THOMAS D
1216	TYREE, SANDRA E
1223	COGGINS, MARLA
1225	NETTLETON, RICHARD L CLEMENT, MICHAEL C
1233	•
1241 1263	LEMBACH, SCOTT WILLIAMSON, DOYLE
1359	MILLER, DAWN M
1377	KATONA, JOSEPH
1377	STINSON, GREGORY
1423	HICKS, WALTER A
1423	HOLDER, PATTI R
4051	D&R MOBILE HOME SERVICE
4139	WHEELER, TRISHA
4140	HARRIS, DANIEL
4173	THURLOW, C
4170	TOWNSEND, HAROLD
4191	HALL, BRIAN
4298	BURT, SHERYL L
4326	FENNER, RONALD
4456	COBLEIGH, LAURENC
4496	WALKER, JAMES
5015	BABCOCK, TODD
5023	QUAGLIA, LINDA
5031	BLAKE, TIMOTHY L
5036	RANDALL, ROBERT
5039	OUELLETTE, SHARON
5049	GUIBORD, WALTER C
5050	EASHOO, DANIEL
5074	WEBB, CURT
5082	FLEMING, DENISE
	TIDBALL, MARVIN
5094	OHARE, MYLES
5095	MUTER, DAVID E
5116	SIKORA, DAVID
5124	STONE, EDWARD E

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# E FRANCES RD 2000 (Cont'd)

	21101102010	 (Some a)	
5134	WALKER, ERIKA		
5146	DOSH, JERALD R		
5156	KALLAS, WILLIAM A		
5166	CUNEAZ, HARRY		
5196	RILEY, THOMAS W		
5204	SMITH, RAYNA G		
5222	HATT, LINDA		
5230	WILLIAMS, GREGORY		
5240	SMITH, MICHAEL		
5250	STARKINGS, WARREN L		
5270	LUNSFORD, LESTER		
5275	PAPP, JOE		
5278	LAKE, HERBERT J		
5286	WILCOX, M R		
5294	PASTOR, BARBARA A		
5322	GRUBER, ROY N		
5348	COONS, THOMAS		
	ET LEASING		
5354	WALKER, EMORY D		
5355	STEVENS, RICHARD K		
5366	MORRISON, BRENDA		
5371	COUTURE, PAUL F		
5384	FREER, ANDREW J		
5404	HODGE, MATTHEW		
5414	NOYCE, KEITH		
5417	BAIN, ROBERT		
5427	BIRCH, RON		
5444	JEAN, TIMOTHY		
5454	ELITE MARINE ELECTRONICS		
	HALL, MATTHEW K		
	SCOBLE, TERRI L		
5457	MILLER, DANIEL		
5476	JEWETT, IRVING R		
6023	BAILEY, FORREST		
	MOREY, GAIL		
6024	PENDER, JACK A		
6056	HEDRICK, MARK W		
6076	ALBIN, MARK		
6101	JACKSON, ROBERT D		
6102	POWELL, MICHAEL K		
6116	MANKOWSKI, ERNA		
6126	FRECHETTE, A S		
6156	SIGOURNEY, TRACY		
6171	AHEARNE, THOMAS		
6194	PARKS, GARY M		
6204	WEAVER, DOUGLAS W		
6205	DEKRUGER, VICKI L		
6253	HART, T		
	MARTIN, M A		
6263	SAPP, CEDRIC		

E FRANCES RD 2000

(Cont'd)

6266	THOMAS, JAMES E	
6301	NOWLAND, RICHARD	
6302	BARKER, LANCE N	
6319	LAMP, SCOTT	
6325	CRIBBS, MICHAEL	
6349	MOSS, MARK	
6393	BRUDER, PEGGY M	
6405	JOHNSTON, MATTHEW	
6417	NICHOLS, DAVID E	
6429	SIGOURNEY, TRACY	
6457	RAYMOND, JOSEPH	
6465	SCHASCHECK, FRANCIS G	
6475	BATES, LAVONA	
6485	ELLIOTT, KURT M	
6491	LANPHEAR, C J	
7062	OUELLETTE, BRADLEY T	
7076	WARE, KERMIT	
7156	SWILLEY, R D	
7191	GRUBER, ROY	
7224	CHANDLER, JANICE	
7302	TRYTKO, DAN	
	WILDFIRE ART STUDIO	
7367	GRUBER, FERNAN M	
7442	UPTEGRAFF, RICHARD	
7484	SERVICE DEPOT	
	ZOVISHLACH, EDWARD W	
7528	STEPHENS, GARY L	

### E STANLEY RD 2000

400=	
1027	ROSE, BRIAN
1033	OLSON, CINDI K
1047	CARNEY PLUMBING INC
	CARNEY, DEBRA L
1131	RAU, KEITH M
1139	BLANDFORD, NORMA
1147	FULCHER, GARY J
	SATISFACTION SIDING
1217	CARTER-JONES LUMBER CO THE
1278	MARTIN, FREDDIE N
1297	OLDAKER, JAMES
1299	SELL, ALONZO H
1302	LOWRY, MICHAEL
1320	VILLARREAL, LISA M
1439	MABRY, ANTHONY
2068	WEBSTER, CAROL
2115	KNICKERBOCKER FARMS
2122	BROWN, CECIL W
2160	MOTEN, JACOB
2177	ALSTEEN, HERBERT
2240	JUDD, JEFFREY
2369	HORTON ADULT FOSTER CARE HOME
	HORTON, JOSEPH
2389	MATHER, LELAND L
2401	GREER, DAN
2402	ELZY, SELENA J
2424	HANNER, MELVIN L
2434	CALDWELL, JAMES
2459	KETOLA, MICHAEL W
2477	OSBORNE, DAISY
3025	SHRINER, HOWARD
3058	COURT STREET BEAUTY & BAR
3060	CAMPBELL, ALEX
3061	LEATHERS, LOIS
3070	HOPSON, ALFONZA
3089	LEATHERS, RICHARD
3106	CSIRKE, SCOTT J
3116	STJAMES, DENNIS P
3121	LABEAN, MARILYN D
3181	MANNING, ALICE M
3204	FRANCISCAN FRIARS OF MARY
3317	DELGADO, JOHN J
3377	BUCKLE, LARRY E
3387	BEARSE, PHILLIP W
3399	CHURCH, PHILLIP J
3417	PINTOSKI, PERRY
4029	DUBBS, JASON G
4055	NEWMAN, DALE C
4065	LARKIN, F C
4075	CARLSON, KRISTAL L

E STANLEY RD 2000 (Cont'd)

4085	DIRECT FLOORS		
	KENT S CARPET SERVICE		
	WALTON, KENT M		
4105	LINCE, GORDON		
4115	POTTER, DONNA B		
4124	MOTEN, GEORGE		
4167	PRINCING, DALE D		
4187	FURNISH, WILLIAM A		
4215	DBK & ASSOCIATES		
	WILLIAMSON, D		
4247	DESMOND, GERALD		
4271	DRIER, C		
4274	SIMMONDS, E		
4291	MARSHALL, CHARLES		

Cross Street

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## N DORT HWY 2000

6065	MARATHON ASHLAND PETROLEUM LLC
6129	BIVINS GOURMET BARBECUE SAUCE
6136	GUNTHER MOBILE HOME SALES INC
6339	MARKS PAVING INC
6406	TODD, DEBRA
6409	TIP O-LE DOGGIE MOTEL
6439	LITTLE COUNTRY LOUNGE INC
6442	WHITE SWAN MOTEL
6476	WILLIS, DAVID I
6524	GILLIES CONEY ISLAND INC
7017	CHANDLER AUTO SALES INC
7024	LABORERS INTERNATIONAL N AMER
7031	NORTH DORT TRANSMISSION CO
7063	GENERAL TOWING
7073	TATOO PARLOR
7074	RAT TECH ENGINEERING
7092	AUTOPRIDE COLLISION EAST
7113	MURRAY, P
7191	KENYON, ROGER
	MARTINEAU, NORMA
7232	A-YOTTE WATERPROOFING
	AYOTTE CONSTRUCTION AND RE
7246	WALKER, ARTHUR G
7257	CUSTOM HANDLING FABRICATORS
7293	SKIDMORE, KEVIN
7307	QUIETLINE MUFFLER & BRAKE INC
7315	AUTO MO BEALS INC
7351	HOSLER, THOMAS G
7352	BIG BRUTUS PIZZA
	POHLMAN-ELLARD CNSTR CO
7365	EVANS, ERWIN
7377	J & L HEATING & COOLING
7406	C W A MANUFACTURING COMPANY
7409	D & M CYLNDER HEAD SPECIALISTS
7426	WACO MANUFACTURING
7430	PANTER MASTER CONTROLS INC
7463	DONNS APPLIANCE SALES & SVC
7477	REPUBLIC WALLS INC
7491	MAXIS INC
7512	D M J CORP
7515	GIFT HOUSE
7525	B & G MUFFLER & BRAKES
8033	SPECIAL AFFAIRS INC
8043	C C & H WELDING
8107	LYONS WELL DRILLING INC
8223	KIM RICH BUILDERS
8329	MATHESON, JERRY
8376	RYDER TRUCK RENTAL & LEASING
	STACK STOCK & LOCK INC
8405	WAGONER STEVEN

**Target Street** 

# N DORT HWY 2000 (Cont'd)

8460	LPFINC
	MC COMBS ENTERPRISES INC
	SKATELAND ROLLER SKATING RINK
8499	MT MORRIS CHURCH OF NAZARENE
8521	GRIEBE, WILLIAM J
9007	MARGIES MENAGERIE
9035	DUQUETTES SERVICES
9059	GEORGES BARBER SHOP
9095	SAFE & SOUND MINI STORAGE
	WINDPUSHER
9118	ADVANCED POURED WALLS INC
	WALDORF AND SONS INC
9129	GOSS ENTERPRISES
	SASSY STYLES
_	PONY KEG
9157	WHITE, THOMAS E
9201	KRAUS, CHARLES
9212	COLE, VERNON I
9222	AVERY, LOUANN K
9313	KEELY MARLENE
9359	BELOTT JOHN
9411	BELOTT JOHN & SON
9421	A K DISTRIBUTING
	SORGE FIREPLACE SHOP
9506	FLINT MEMORIAL PARK ASSN

## E CARPENTER RD 1995

1510	BARGAIN BASKET
	BARGAIN BASKET THRIFT
	INTERSTATE BRANDS CORPORATION
	WONDER DISTRIBUTORS
1716	BLUE BELL MINI MART
1902	MARTIN, MARIE
1910	MOSS, P A
1914	GILLARD, EVA
2014	ROSBOROUGH, OWEN

#### **EDR** Digital Archive

## E FRANCES RD 1995

1037	BOTT, CHARLES
1046	MCGRIFF, ELMER J
1053	BOWNS, MARY
1061	COHA, ANNA
1062	IRVING, LEO F
1067	OCCUPANT UNKNOWNN
1080	RADFORD, KENNARD
1083	OCCUPANT UNKNOWNN
1105	OCCUPANT UNKNOWNN
1143	WASHBURN MOBILE HOME SERVICE
	WASHBURN, DALLAS L
1144	OCCUPANT UNKNOWNN
1145	WINTERLEE, LAURIN
1146	OCCUPANT UNKNOWNN
1148	SPENCER, CHERYL E
1153	MARKLEY, DAVID
1154	INTAWONG, KASEM J
1159	OCCUPANT UNKNOWNN
1168	STADLER, LEO L
1169	MITCHELL, JOHN
1176	SATKOWIAK, LEON J
1181	TRAVIS, M
1193	THAYER, S
1207	NOLFF, JILL A
1208	THIELL, THOMAS D
1223	STONE, AGNES L
1225	OCCUPANT UNKNOWNN
1233	CLEMENT, MICHAEL C
1241	BUDS BUGGY PARTS
1263	WILLIAMSON, DOYLE
1327	LONG BRANCH SALOON
1359	MILLER, DAWN M
1399	STINSON, GREGORY
1423	HICKS, WALTER A III
1437	KLINE, IRVING
4173	THURLOW, C
4191	HALL, BRIAN
5015	OCCUPANT UNKNOWNN
5023	BRUSHABER, LINDA
5031	GARANT, CANDICE
5036	RANDALL, ROBERT
5039	OVELLETTE, ROBERT
5049	GUIBORD, WALTER C
5050	CRONKRIGHT, WILLIAM D
5059	TORTORICE, WILLIAM W
5066	NICHOLS, FOREST J JR
5069	OCCUPANT UNKNOWNN
5074	DAVIS, THERESE
5082	BLACK, SCOTT
	FLEMING, DENISE
	·

E FRANCES RD 1995 (Cont'd)

		•
5004	WATOON JOUN	
5094	WATSON, JOHN	
5095	MUTER, DAVID E	
5104	OCCUPANT UNKNOWNN	
5116	SIKORA, DAVID A	
5124	STONE, EDWARD E	
5134	BOYD, LARRY R	
5146	DOSH, JERALD R	
5156	KALLAS, WILLIAM A	
5166	OCCUPANT UNKNOWNN	
5188	OCCUPANT UNKNOWNN	
5196 5204	RILEY, THOMAS W	
5204 5214	GREEN, KATHY OCCUPANT UNKNOWNN	
5214	HATT, LINDA	
5230	SMITH, MICHELE	
5240	SMITH, MICHAEL	
5250	STARKINGS, WARREN L	
5260	OCCUPANT UNKNOWNN	
5270	OCCUPANT UNKNOWNN	
5275	PAPP, JOE	
5278	OCCUPANT UNKNOWNN	
5286	KING, ELSIE	
5294	OCCUPANT UNKNOWNN	
5304	OCCUPANT UNKNOWNN	
5312	OCCUPANT UNKNOWNN	
5322	GRUBER, ROY N	
5348	COONS, THOMAS	
5354	WALKER, EMORY D	
5355	STEVENS, RICHARD K	
5366	OCCUPANT UNKNOWNN	
5371	COUTURE, PAUL F	
5384	CARPENTER, CHRISTY	
5404	HODGE, MATTHEW	
5411	OCCUPANT UNKNOWNN	
5414	NOYCE, BERNARD K	
5417	BAIN, ROBERT	
5427	BIRCH, MADONNA	
5430	SMITH, ROBERT	
5444	JEAN, TIMOTHY	
5454	SCOBLE, TERRI L	
5457	APPLEGATE, JEFFREY A	
5467	SMITH, LUANN	
5476	JEWETT, IRVING R	
6023	BAILEY, FORREST	
6024	PENDER, JACK A	
6029	OCCUPANT UNKNOWNN	
6056	HEDRICK, MARK W	
6067	OCCUPANT UNKNOWNN	
6076	OCCUPANT UNKNOWNN	
6101	JACKSON, ROBERT D	

Target Street Cross Street Source
- Coss Street EDR Digital Archive

E FRANCES RD 1995 (Cont'd)

6123	OCCUPANT UNKNOWNN
6194	SANBORN, TERRY J
6205	GRIFFITH, EDWARD
6236	OCCUPANT UNKNOWNN
6253	OCCUPANT UNKNOWNN
6263	SAPP, CEDRIC
6266	THOMAS, JAMES E
6301	NOWLAND, RICHARD
6302	BARKER, LANCE N
6319	LAMP, SCOTT
6363	JONES, JAMES M
6405	JOHNSTON, MATTHEW
6417	NICHOLS, DAVID E
6429	POWELL, KENNETH H
	STATE WIDE BUILDING CO
6441	HRADECKY, RONALD J
6453	FINK, RONALD
6465	SCHASCHECK, FRANCIS G
6475	OCCUPANT UNKNOWNN
6485	ELLIOTT, KURT M
6491	LANPHEAR, CLAR J
7062	OUELETTE, BRADLEY T
7076	WARE K INC
	WARE, KERMIT
7156	SWILLEY, R D
7191	OCCUPANT UNKNOWNN
7208	TAYLOR, WILSON J
7213	OCCUPANT UNKNOWNN
7224	CHANDLER, JANICE
7247	HOFFMEYER, RICK
7291	EVERMAN, JOHN W
7302	TRYTKO, DAN
7328	OCCUPANT UNKNOWNN
7358	WILLHELM, ROBERT L
7367	GRUBER, FERNAN M
7415	STEWART, STEVE J
7442	BANNING, ORGIAL J
7484	ZOVISLACH, EDWARD W JR
7528	STEPHENS, GARY L

### E STANLEY RD 1995

1027	DICKENS, TERESA
1033	DUNCKEL, DUANE
1035	HATCH, GREGORY L
1037	OCCUPANT UNKNOWNN
1047	LEMMON, DONALD
1097	COULTER, THOMAS
1131	RAU, KEITH M
1139 1147	BLANDFORD, NORMA
	FULCHER, GARY J OCCUPANT UNKNOWNN
1155 1207	OCCUPANT UNKNOWNN
1207	CARTER-JONES COMPANIES INC
1217	WHIPPLE, STACY
1297	SELL, A H
1302	LOWREY, MICHAEL
1320	VILLARREAL, LUIS
1439	MABRY, ANTHONY
2013	OCCUPANT UNKNOWNN
2056	NEELEY, RICHARD A
2068	WEBSTER, DAVE
2115	KNICKERBOCKER FARMS
20	KNICKERBOCKER, PAUL H
2122	BROWN, CECIL W
2160	MOTEN, JACOB
2177	ALSTEEN, HERBERT M
2382	OCCUPANT UNKNOWNN
2401	BENNETT, RICHARD
2402	FINNEY, MOCERI
2411	COTTON, ADAM JR
2424	HANNER, MELVIN L
2434	MISENER, ROGER W
2439	OCCUPANT UNKNOWNN
2454	OCCUPANT UNKNOWNN
2474	OCCUPANT UNKNOWNN
2477	OSBORNE, EDWARD
2484	OCCUPANT UNKNOWNN
2499	MASON, APRIL L
3025	OCCUPANT UNKNOWNN
3034	JEFFERSON, RUBY
3047	GATICA, RAY
3058	OCCUPANT UNKNOWNN
3060	CAMPBELL, ALEX
3061	LEATHERS, L
3070	HOPSON, ALFONZA
3082	OCCUPANT UNKNOWNN
3089	LEATHERS, RICHARD
3096	SHRINER, KENNETH
3106	CSIRKE, SCOTT J
3116	STJAMES, DENNIS P
3121	SALGAT, HERBERT A

E STANLEY RD 1995 (Cont'd)

316		OWE, GARY L
317		JLLALLY, SIS
318		JLLALLY, JOHN P
331		ELGADO, JOHN
335		VEERS, HAROLD
337		HANN, K
402		JBBS, JASON G
403		ATCH, GREGORY
405		EWMAN, DALE C
406		RKIN, WILLIAM C
408		CCUPANT UNKNOWNN
410		NCE, GORDON
411		OTTER, DONNA B
412		ELBY, KENNETH D
412		RICE, JEFF
414		RCH, J
416		E, HARVEY
418		CCUPANT UNKNOWNN
		TTLE, PHILLIP W
_		CCUPANT UNKNOWNN
421		DSCH AUTOMATION PRODUCTS
		ILLIAMSON, B
424		ESMOND, GERALD
427		RIER, C
427		MMONDS, ROGER
428		CCUPANT UNKNOWNN
429		ARSHALL, CHARLES
430		MMONDS, EDWARD J
432		ELONEY, BERNARD
435	_	CCUPANT UNKNOWNN
438		WING, DONALD L
439		ALMER, MORRIS C
440		NICKERBOCKER, MICHAEL H
441		CCUPANT UNKNOWNN
443		RYAN, L M
444		NANICH, TAMMY L
444		CCUPANT UNKNOWNN
446		CCUPANT UNKNOWNN
447		OWD, CLYDE D
448		ALKER, S
450		CCUPANT UNKNOWNN
451		CCARTHY, GEORGE
452		OSEK, SCOTT
453	/ VV	OLVIN, KAREN

## N DORT HWY 1995

6000	DETHERS JORY
6000 6129	PETHERS, JODY PORK N BEEF BARBECUE SAUCE
6136	GARDNER, CHARLEY
0130	GUNTHER MOBILE HOME SALES INC
6220	MARKS PAVING INC
6339	
6409	TIP O-LE DOGGIE MOTEL
6442	WHITE SWAN MOTEL
6465	RUSSELL, DONNA
6524	GILLIES CONEY ISLAND INC
6576	EBERHARDT, EDWARD
7017	CHANDLER AUTO SALES INC
7024	LABORERS INTERNATIONAL N AMER
7063	GENERAL TOWING & COLLISION
7072	MANN, CHARLES
7073	MCKENNEY, BRENDA M
7074 7085	RAT-TECH ENGINEERING
	OCCUPANT UNKNOWNN A-1 AUTO SHINE INC
7092	ARROW FLINT ELECTRIC COMPANY
	KNICKERBOCKER QUALITY CARS
	STEWART, REID
7113	OCCUPANT UNKNOWNN
7113	HICKEY, CLIFTON L
7141	OCCUPANT UNKNOWNN
7153	OCCUPANT UNKNOWNN
7159	WOODRING, JAMES K
7180	MICHIGAN AUTO AUCTION INC
7181	OCCUPANT UNKNOWNN
7191	GILLIAM, JOYCE
7223	HUGHES, JOHN A
7232	AYOTTE CONSTRUCTION AND RE
7243	OCCUPANT UNKNOWNN
7260	TREECE, LORI
7269	SHERWOOD, VICKIE
7293	SKIDMORE, KEVIN
7307	SHOLLER, M
7315	WILSONS RUSS KARATE INC
7351	BENNETT, SCOTT
	CRATON, HEATHER
	GERMUNDSEN, MALISSA
	PALMER, TIMOTHY
	POTTER, TINA M
	SPRAGUE, ECHO
7352	ALLISON, BRIAN
	BIG BRUTUS PIZZA
7365	BURCH, SHERRY
	MECHANICAL TOOLING INC
7389	BELL, RONALD
7397	ARMANS GEAR WORKS INC
7406	C W A MANUFACTURING COMPANY

N DORT HWY 1995 (Cont'd)

	(22,12)	
7409	D & M CYLNDER HEAD SPECIALISTS	
7411	BANKS, MARY	
7425	COOKE, G	
7426	WACO MANUFACTURING	
7430	C N C RETROFITS INC	
	DOOR SUPPLY DOORWORKS	
	MC ANDREWS WHITNEY INVESTMENTS	
	PANTER MASTER CONTROLS INC	
7462	-, -	
7463	CELEBRATE COSTUME & PARTY SUP	
	DONNS APPLIANCE SALES & SVC	
7477	AMERICAN FLAG POLE COMPANY	
	TAYLORS POURED WALL INC	
8033	SPECIAL AFFAIRS INC	
8078	MOUNTAIN INN LOUNGE INC	
8087	CUSTOM MADE SOFTWARE	
0407	FPC INCORPORATED	
8107		
8150	RIDDLE, CHERYL	
8238	WHITNEY CONSTRUCTION COMPANY	
8261	CAMRAN EXCAVATING	
8271	FIAS, ANTHONY	
8329	GOODE, FLOYD	
8376	BRENCON ENERGY PRODUCTS INC	
8425	STACK STOCK & LOCK MINI STOR OCCUPANT UNKNOWNN	
8425 8460	MC COMBS ENTERPRISES INC	
0400	MCCOMBS, DANIEL	
8500	NORTH DORT MANOR LTD	
9007	MARGIES MENAGERIE	
9059	GEORGES BARBER SHOP	
9009	SWEERS, C	
	VID TECH ELECTRONICS	
9083	PREVOST, ROBERT J	
9095	FAUR, SALOMIE	
0000	WINDPUSHER	
9129	DINGMAN, ROD	
	GOSS ENTERPRISES	
9144	ALYOUSEF, JAMAL M	
	PONY KEG	
9157	PERO, R	
9160	OCCUPANT UNKNOWNN	
9177	OCCUPANT UNKNOWNN	
9184	MARTINSON, C	
9195	OCCUPANT UNKNOWNN	
9196	BELDOCK, SHAWN	
9222	DANIEL, DONALD R	
9254	DANNYS FLOWERS	
	PEARL, DANIEL	
9313	OCCUPANT UNKNOWNN	

			Tt Bigital / troilive	
	N DORT HWY	1995	(Cont'd)	
9317	SIMPSON, DEANA M			
9319	JUNES FLORAL SHOP			
9333	PALMETER, ROLLIE			
9359	ALEXANDER, C LALONDE, GER LOLONDE, GER			
9389	FOGARTY, KAREN			
9411	BELOTT JOHN & SON			
9421	A K DISTRIBUTING SORGE FIREPLACE SHOP			
9443	KERRISON, C			
9447	MOCHTY, LARRY J			
9506	FLINT MEMORIAL PARK ASSN			
9535	TWILITE			

### E CARPENTER RD 1992

	E CARPENTER RD	1992
1510	BARGAIN BASKET BARGAIN BASKET THRIFT CONTINENTAL BAKING COMPANY WONDER BREAD THRIFT STORE	
1602 1720	CHIAVERINI, JOANNE CONWAY LAUNDRY & DRY CLEANING	
1930 2014 2095	TIGGS, C ROSBOROUGH, OWEN ALLIED BUILDING CO INC	
2106	ALBIN, ANTHONY M	

1020	MUNICED MICHAEL
1020	MUNGER, MICHAEL BOTT, CHARLES
1037	MCGRIFF, ELMER J
1048	BOWNS, MARY
1061	COHA, ANNA
1061	IRVING, LEO F
1083	FREEMAN, ALLEN
1143	WASHBURN MOBILE HOME SERVICE
1143	WASHBURN, DALLAS L
1145	WINTERLEE, LAURIN
1148	GOODE, FLOYD M
1168	STADLER, LEO L
1176	SATKOWIAK, LEON J
1193	THAYER, S
1207	GROULX, PATRICK
1208	THIELL, THOMAS D
1223	STONE, AGNES L
1225	NETTLETON MICHAEL
	NETTLETON, RICHARD L
1233	CLEMENT, MICHAEL C
1241	BUDS BUGGY PARTS
1263	WILLIAMSON, DOYLE
1327	LONG BRANCH SALOON
1359	MILLER, DAWN M
1399	STINSON, GREGORY
1423	HICKS, WALTER A III
1437	KLINE, IRVING
4030	THEODORE, MIKE
4173	THURLOW, C
4191	HALL, BRIAN
4244	BONNER, JAMES
5023	KARNJATE, GEORGE
5039	OUELLETTE, ROBERT
5049	GUIBORD, WALTER C
5050	CRONKRIGHT, WILLIAM D
5066	NICHOLS, FOREST J JR
5074	DANS LAWN CARE
5082	FLEMING, DENISE S
5094	OHARE, MYLES
5095	MUTER, DAVID E
5116	WILLEY, DONALD G
5124	STONE, EDWARD E
5134	BOYD, LARRY R
5146	DOSH, JERALD R
5156	KALLAS, WILLIAM A
5166	CUNEAZ, HARRY
5196	RILEY, THOMAS W
5204	ROLFE, GERALD JR
5214	HEATH, MILTON
5240	SMITH, ROBERT K

1992

(Cont'd)

5050	OTARIZINOS IMARRENII
5250	STARKINGS, WARREN L
5260	KING, KENNETH W
5270	LUNSFORD, LESTER
5304	MILLER, JOANN
5348	COONS, THOMAS
5354	WALKER, EMORY D
5355	STEVENS, RICHARD K
5366	GUTZEIT, CAROLYN
5411	MINORITY CONCRETE CONTRACTORS
5417	BAIN, ROBERT
5427	POGGI, JOSEPH
5454	SCOBLE, TERRI L
5457	APPLEGATE, JEFFREY A
5476	JEWETT, IRVING R
6023	AMBOY, ROBIN
6024	PENDER, JACK A
6056	HEDRICK, MARK W
6076	LAFRAMBOISE, JOAN M
6101	JACKSON, ROBERT D
6123	OATES, EDWARD
6194	SANBORN, TERRY J
6205	GRIFFITH, EDWARD
6253	MARTIN, M A
6266	THOMAS, JAMES E
6302	BARKER, LANCE N
6405	JOHNSTON, MATTHEW
6417	NICHOLS, DAVID E
6429	POWELL, KENNETH H
6441	HRADECKY, RONALD J
6453	FINK, RONALD
6465	DINNAN, DAVID E
6485	ELLIOTT, KURT M
6491	LANPHEAR, C J
7062	OUELETTE, BRADLEY T
7076	K WARE INC
7156	SWILLEY, R D
7208	TAYLOR, WILSON J
7224	CHANDLER, JANICE
7247	BLAISDELL, ROGER
7291	EVERMAN, JOHN W
7302	TRYTKO, DAN
7328	BLAISDELL, RODNEY W
7415	STEWART, STEVE J
7442	BANNING, ORGIAL J
7484	ZOVISLACH, EDWARD W JR

7528 STEPHENS, GARY L

EDR Digital Archive

### E STANLEY RD 1992

1007	DOSE TERESA
1027	ROSE, TERESA
1033	DUNCKEL, DUANE
1037	HOADLEY, JOHN T
1047	LEMMON, DONALD
1097	COULTER, THOMAS
1131	RAU, KEITH M
1139	BLANDFORD, HARRY
1147	FULCHER, GARY J
1217	CARTER LUMBER CO MICHIGAN CORP
1302	SMITH, KATHRYN P
2068	WEBSTER, DAVE
2115	KNICKERBOCKER, PAUL H
2122	BROWN, CECIL W
2160	MOTEN, JACOB
2177	ALSTEEN, HERBERT M
2402	ELZY, J B
2411	COTTON, ADAM JR
2424	HANNER, MELVIN L
2434	MISENER, ROGER W
2439	WILLIAMS, A
2474	DUALITE ENTERPRISES
2477	OSBORNE, EDWARD
3025	WILKINS, RONALD G
3047	FETTERHOFF, VIVIAN L
3058	SMILEY, ARNOLD
3060	CAMPBELL, A
3061	LEATHERS, HOMER
3070	HOPSON, ALFONZA
3089	LEATHERS, BRUCE
3096	SHRINER, KENNETH
3106	MCGUIRE, PATRICK
3121	S & S CONTRACTING
	SALGAT, HERBERT A JR
3162	HOWE, GARY L
3204	MULLALLY, THOMAS M
3317	KENNEDY, ELMIRA M
3350	SWEERS, HAROLD
3377	SHANN, GLORIA L
4029	DUBBS, JASON G
4035	HARPER, ANTHONY W
4065	LARKIN, WILLIAM C
4105	LINCE, GORDON
4115	POTTER, ALBERT L
4124	EXPERT VIDEO SERVICE
	SELBY, KENNETH D
4147	COTIE, DALE F
4167	LEE, HARVEY
4215	SLATTERY, MICHAEL B
4247	DESMOND, GERALD
4271	DRIER, C

E STANLEY RD 1992 (Cont'd)

4274 4291	SIMMONDS, ROGER MARSHALL, CHARLES

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

**EDR** Digital Archive

## N DORT HWY 1992

0400	CUNTUED MODILE LIONE CALECING
6136	GUNTHER MOBILE HOME SALES INC MARKS PAVING INC
6339 6384	WILLIAMS HOME FOR AGED
6409	LEE, T W
0409	TIP O-LE DOGGIE MOTEL
6442	WHITE SWAN MOTEL
6524	GILLIES CONEY ISLAND INC
7017	CHANDLER AUTO SALES INC
7074	DAVES MACHINE SERVICE
7092	A-1 AUTO SHINE INC
7002	KNICKERBOCKER QUALITY CARS
7127	HICKEY, C L
7180	MICHIGAN AUTO AUCTION INC
7232	AYOTTE CONSTRUCTION AND RE
7257	CUSTOM HANDLING FABRICATORS
7293	WHEEL & WILLIES CAR INC
7315	WILSONS RUSS KARATE INC
7352	SIGNS ETC
7365	MECHANICAL TOOLING INC
7397	ARMANS GEAR WORKS INC
7409	D & M CYLNDER HEAD SPECIALISTS
7463	CELEBRATE COSTUME & PARTY SUP
	DONNS APPLIANCE SALES & SVC
7477	ADOBE WALLS INC
	AMERICAN FLAG & FLAGPOLE CO
	TAYLORS POURED WALL INC
7491	CARRIAGE STOP INN
8033	SPECIAL AFFAIRS INC
8067	FIRE FAB CO
8078	MOUNTAIN INN LOUNGE INC
8087	CUSTOM MADE SOFTWARE
0407	FPC INCORPORATED LYONS WELL DRILLING INC
8107	CAMRAN EXCAVATING
8261 8376	STACK STOCK & LOCK MINI STOR
8460	MC COMBS ENTERPRISES INC
8500	NORTH DORT MANOR LTD
9059	GEORGES BARBER SHOP
3033	PRO-TECH ELECTRONICS
9095	WINDPUSHER
9144	PONY KEG
9210	COLES FURNITURE & GIFT CENTER
9254	DANNY S FLOWERS
9319	JUNES FLORAL SHOP
9359	LEACH, ARNOLD
9411	BELOTT JOHN & SON
9421	A K DISTRIBUTING
	SORGE FIREPLACE SHOP
9535	TWILITE

Source POLK DIRECTORY CO

#### E CARPENTER RD 1985

106

## CARPENTER RD EAST (GENESEE TWP)—FROM G5000 N SAGINAW EAST TO DORT HWY

ZIP CODE 48505

G1037 Mott Trailer Rental 789-7137 Mott Patricia A ⊚ 789-7137

G1055 Brann Deborah Mrs

G1067 Linton Jerry D ⊚ 789-7153

G1073 Aylsworth Robt E ⊙ 789-8979

G1085 Vacant

G1091 Spight's Asphalt

Huddleston Tammy S 785-2256

1091a★Huddleston Tina C

G1105 Williams Herman G GEORGE ST BEGINS

G1119★Allen T

G1157 Bowen Vashtie Mrs @ 785-9427

G1167 Holmes James H @

G1171 ★ Day Murphy L 787-2747

G1177 Daniels Lori E 787-4317

G1183 Berlanga Adelaida Mrs 💿

G1187 Ginger Susan E

ALFRED BEGINS

SELBY ST INTERSECTS

INTERSTATE 475 CROSSES

HORTON AV INTERSECTS

HARRY ST BEGINS

1349★Montgomery Sherrie L 787-2772

G1369 Thompson Robt K ◎ 785-7274

G1399 Perakovic Anthony T ⊚ 789-0927

G1411 Vacant

G1433 Parker Chas E ⊚

G1447 Parker's Philgas Co ofc 789-9117

#### E CARPENTER RD 1985

Parker's Philgas Co bottled gas 789-9117 CHESSIE SYS CROSSES DORT HWY INTERSECTS

108

G3309 Jones Michl L @

**Target Street** 

G3312 Secor Pauline E Mrs ⊙

G3323 Dunn Bruce L © 736-3123

G3324 Tribelhorn Phillip G ⊚ 736-7335

G3330 Reppuhn Donald R @

G3339 Szuch Bert E ⊚ 736-7907

G3340 Bartive Danny

G3353 Pahr Margt E Mrs ©

G3354 Maher Dennis A @ 736-6816

G3371 Szuch Ernest J ⊚ 736-9473

G3383 Hoover Roberta © 736-4580

G3393 Jennings Edw H @ 736-7562

G3394 Brushaber W Kenneth © 736-8747

G3409 Toth Darlene L @ 736-8093

G3420 No Return

G3434 Almasy Nick E @ 736-8071

G3437 Music John J @

G3449 Campbell Lillian F Mrs © 736-6747

G3450 Herron Wm L @ 736-7613

G3459 Wilson John E @ 736-8829

G3460 Pettengill Robt H ⊚ 736-7936

G3471 Roda Matthew L @ 736-5748

G3479 Saxton Raymond S @ 736-8586

G3479½ Vacant

G3499 Puckett Ralph E ◎ 736-9567

G3507 Urlaub Gary M

G3519 Emigh Robt L ⊚

G3525 Mike's Market gro 736-6960

N CENTER RD INTERSECTS

G4048 Fridline Wm

G4072 Fridline Roy H ⊙

G4098 Calvo Joe

G4112 Gronemeyer Wm R ⊙ 736-7516

G4132 Anderson Donnald © 736-8703

Source POLK DIRECTORY CO

IUZ

E FRANCES RD

1985

# FRANCES RD EAST (GENESEE TWP) FROM G8518 N SAGINAW EAST TO N DORT HWY

ZIP CODE 48458
G1020 Norton Jean M Mrs ⊚ 687-0406
G1037 Bott Valentine J ⊚ 686-2968
G1046 Mc Griff Elmer J ⊚ 686-4445
G1053★Werda Mark ⊚ 686-7261
G1061 Coha Anna M Mrs ⊚ 686-6408
G1062 Irving Mary I Mrs ⊚ 686-2733
G1067 Wigginton Emma R Mrs ⊚ 686-8421
G1080 Sautter Earl J ⊚ 686-6474
G1083 Freeman Allen L ⊚ 687-0111
G1105 Perry Judy K Mrs ⊚ 687-2456
G1138 Sabo Irene L Mrs ⊚
1142 Apartments

## E FRANCES RD 1985

1 Gunn Lisa M

2 Dame Edith

3 Gifford Belva D

G1143 Washburn Dallas D @ 687-2387

G1144 Griffin Leah L Mrs @ 686-4184

G1145 Winterlee Laurin A @ 686-6895

G1146 Hunt Lawrence A @ 687-1786

G1148 Goode Floyd M @ 686-7965

G1153 Baker Jeffery K @

G1154 Intawong Kasem ©

G1159 Delling Harold D @

G1160 Kovacs Julius J

G1168 Stadler Leo L @ 686-4171

1169 Delling Danny R ©

G1176 Satkowiak Mary M Mrs @ 686-8515

G1181 Culhane Donald E @

G1193 Werda Gerald J @ 686-7389

G1207 Kudlick John

G1208★Thiell Thos D © 687-2977

G1216 Tyree Sandra E Mrs ©

G1223 Stone Agnes L Mrs @ 686-7531

G1225 Nettleton Richd L @ 686-8833

G1233 Clement Michl C @ 686-5641

G1241 No Return

G1247 Jenkins Paul S @

G1263 Williamson Doyle © 686-2982

N DORT HWY INTERSECTS

## E STANLEY RD 1985

104

# STANLEY RD EAST (GENESEE TWP) FROM N SAGINAW EAST TO DORT HWY

ZIP CODE 48458

G1027 Vacant

G1033★Brown Shurl ⊙

G1037★Warren Jacqualine ◎

UNION BEGINS

G1047 Lemmon Donald L @ 686-7747

G1097 Bentley Paul C @

G1131 Rau Keith M @ 687-0032

G1139 Blandford Harry W @ 686-3261

G1147 Esmond Loretta A Mrs @ 686-6771

G1155 Gatlin Carol A Mrs 686-6942

G1207 Kenworth Clarence @ 686-4311

1217 Carter Lumber Co 687-5760

G1278 Thrash Duwain H @

G1290 Andrews Kendall R ⊚ 686-8741

G1297 Ehrhart Robt C

G1297½ ★Coolman Rosanne

G1299 Vacant

G1302 Smith Kathryn P @ 686-8787

G1320 Bishop Cheryl A 687-7767

G1439★Covert Michael ©

LEWIS RD INTERSECTS

G2013 Ware A Red @ 687-2061

G2021 Carlson Dorothy D Mrs 687-7405

N DORT HWY INTERSECTS

POLK DIRECTORY CO

	Assessment of the second of th	
	G5172 Sunshine Recreation Vehicle Sls &	112 Lamb Susan ⊚ 785-2988 113★Stratton Leroy
	Services G5182 Turner & Mc Lean Supply Co whol	114 Stewart Donald
	bldg matl 787-2509	115 Rehil James @ 785-2676
5	G5196 North Dort Highway Whse 789-2661	116★Skowronsky Mitchell 117★Irish Rana
	Runyan Pottery Shop 789-2661 G5199 Vacant	*Afton Carl
	G5214 Tinker Bump & Paint body repr	120 Murgas Dale W 787-6107
	5216½ Vacant	122 Grimes Fred B ◎ 789-3058
	G5220 Bill & Burgie's Garage auto repr	CENTER DR INTERSECTS 123*Lewis Chuck
	787-6171 5252 Arrow Warehouses stge 789-5421	124*Curtis Lynnette
	G5273 Reno Auto Parts 789-9311	125 Vacant
	G5300 Flint Portablast sand blasting	126★Madsen Vera
	787-6543 Kurtz Gravel Co 787-6543	127★Omalley Colleen 128★Kranzo Sandy ⊚
	CHESSIE SYS CROSSES	129★Baumgras Iva
	G5305 Young Excavating Inc 789-0746	130★Glover Jamie
	Genesee Valley Asphalt & Paving	131★La Fave Janet
	787-8187	132 Walters Francis ©
	G5320 Vacant G5339 Vacant	133 Domm Sylvia ⊚ 134★Martin Paul
5	G5340 Mobil Oil Corp (TERM) 789-9180	135 Yoesting Gordon
	White Oil Co 789-9184	136 Richardson Steven ⊚
	G5355 Vacant	137★Haddix Randolph
	G5357 Vacant G5371 Perry's Trucking	138 Vacant 139 Daraiseh Taisier
	G5388 Buckeye Pipe Line Co The	140★Horning Tammie
	petroleum & gas pipeline 789-9279	142★Moulton Lorrie
	G5395 Buckler Tire Service 787-2351	144 Nelson Sandra
	G5403 Hill Howard © 785-1535	146 Vacant
	G5412 Fox's Den tavern G5420 Vacant	EAST DR INTERSECTS 201*Wheeler Ann
	G5421 Fray Don Motors truck trailers	202*Goddard Richard
	equip 789-3749	203★Shiflett Frank
	G5422 Vacant	204 Czerwinski Guy
	G5432 Vacant	205 Vacant 206★Griswald Dale
	G5439 Curtz Produce G5449 Vacant	207 Vacant
	G5452 Vacant	209 Brewer Willey
	G5454★Ehrnest Frank J ◎	212 Comstock Lucille J ⊚ 787-8823
	G5455 Vacant	213*Short Marvin
	G5468 Schaaf Pre-Cast Step Co 789-2071 G5469 Stables Restaurant The 789-2241	214★Morton Jerry 215★Andreozzi Ed
	SCHAAF DR BEGINS	216★Bohnard Edw
	G5522 Reliable Metal Stamping 785-4007	217 Long Larry ⊚
ı	5523 Apartments	218 Vacant
	1 Nichols Anne 2 Hawkins Edw C 787-6138	219★Betz Sharon 220 Laundry
	3 Wagner Joe	CENTER DR INTERSECTS
	4 Brewer Jessie	223★Adams Andrew
	E COLDWATER RD INTERSECTS	225★Sparks James
	104	227★Enders Colleen ⊚ 229 Vacant
	COLDWATER RD INTERSECTS	231 Hutton Retha Mrs © 785-8433
	MT MORRIS PO	232 Vacant
;	ZIP CODE 48458	233★Long Janet
•	G6065 Marathon Petroleum Co (Flint Terminal) 785-0841	234 Vacant 235*Bueche Cathy
	G6129 Sort & Pack Service 789-4180	236 Vacant
	G6136 Gunther Mobile Home Court &	237★Abraham Jesse
	Sales Inc 789-3771	238 Vacant
	Gunther Richd L ⊚ 789-3771 Lots	239 Lau Vivian
	100★Lang Donald ⊚	NORTH DR INTERSECTS 300 Hendricks Thos ⊚
	101★Coulter Jim	301 Moore Paul
	102 Germaine Fredk W	302 Inbody Beverly E ⊚
	103 Elliott Mary 785-7011	303 Burton Larry ©
	104 Morrow Harry ⊚ 105 Vacant	304 Fifield Richd ⊚ 785-9697 305 Bangs Sandra ⊚ 787-5443
	106 Hobson Elsie Mrs ⊚	306*Germaine Douglas
	107 Vacant	307 Vacant
	108★Marshall Duane	308★Adram Lois ⊚
	WEST DR ENDS	309★Jarvi Ed
		210 Savova Clauda
	109 Gilko Cecilia ⊚ 110*Vargo Marie Mrs ⊚	310 Severn Claude 311 Muehlenbeck Tom C ⊚ 787-7810

POLK DIRECTORY CO

# N DORT HWY 1985

DORT HWY (G TWP)—Contd	529 Holloway James ⊚	G7192 Vacant
313★Newton Harvey Jr ⊚	530 Pletscher Gary D ⊚ 789-9261	G7200 Guyer Donna J Mrs @ 686-3653
314*Krascell Louis   215 Partie Charles   787 7005	531 Schneidt Kenneth	G7220 Keen Fredk G Jr © 686-4012
315 Partin Charles @ 787-7095	532 Mc Clane Joyce ⊚	G7223 Hughes John A ⊚
316*Knapp Elwin © 785-3866	533 Morin Jean ⊚	G7243 Van Alst Roger D @ 686-2191
317 Sharon Allen ⊚ 789-5266 318 Knoll Irma ⊚ 789-6743	534 Kimmel Myron @ 787-2988	G7246 Taft Jesse A @ 686-9692
318 Knoll Irma © 789-6743 319 Sokola Steve © 785-8919	535*Myers Karen	G7257 Vacant
320*Smith Laurie	537 Gere Wayne ®	G7260 Treece Geo R ©
321 Eagle Nancy	601 Whitehead A Lois ⊚	G7269 Bonk Frank G
322 Martin Geo	603★Hale Zella 605★Hildebrand Karen	G7293 Kuhle Anthony L @ 686-6038
323 Brookman Terry	607 Paulson Rhoda	G7305 Ratcliff's Barber Shop
324 Sharp Robt J @ 785-3700	609 Jackson Orval ©	G7307 Ferris Wayne E ⊚
325★Plamondon Gerald	EAST DR INTERSECTS	G7315 Blake Ray A 686-7338
326 Papineau John @ 787-6477	G6149 Vacant	G7351 Dort Manor Apartments
327 Suttle Tony	G6190 Vacant	1 Roberts Sally 2 Holtslander Sandra
328*Gewirtz Louise	G6203 Vacant	3*Carver H
329 Richmond Charles B	G6368 Horton M Eliz Mrs © 686-2686	4 Vacant
330★Peterson Darrin	G6369 Northwood R V Country Inc	5*James Harvey III
331 Vacant	686-4330	6*Terry Linda
332★Moser Arlene ⊚	G6384 Arminda's Health Service Inc	7 Sly Paulette S
333★Adam Benny ⊚	nursing home 686-6740	8 Higgins Joel T
334 Maurer Gary @ 789-2233	G6406 Todd James E III 687-2303	9 Allen Richd
335 Vacant	G6409 Lee Theo W @ 686-4900	10★Murry E
336 Thomas Patrick @ 785-2055	Tip-O-Le Doggie Motel kennel	G7352 Pietros Pizzeria 687-0880
337 Andrews Dorothy @ 785-6597	686-4900	Flair Dance Studio 686-4544
338 Gadany John ⊚	G6439 Roy's Hideaway lounge 687-5080	G7352½ Signs Etc 687-1930
339*Teague Jerry	G6442 White Swan Motel 686-3680	G7359 Freiburger Robt W
341 Sage Mary	Cain Terry P ⊚ 686-3680	G7365 Kemco Manufacturing Inc 686-3740
343 Gallagher Michl J	G6451 Creed Francis J @	G7377 Vacant
345 Rayburn Roland @ 787-1703	G6455 Runyon Darrel L @	G7383 Zahm Earl G @ 686-4730
EAST DR INTERSECTS	G6462 Toben	G7389 Bell Lester © 686-2284
402★Wheeler Kit	G6463 Reno Dale E @ 686-4188	G7397 Pro Cycle 687-4220
404★Storie Gary	G6470*Coins Gary E	G7409 Fletcher's Complete Engine Serv
406 Munger Michl @	G6485 Jackson Wayne T @ 686-7956	686-6974
408★Schempf Richard	G6500 Hogard Ronald L @ 687-1198	G7411 Banks Arnold E 686-7794
CENTER DR INTERSECTS	THE RESERVE OF THE PARTY OF THE	G7425 Chaffin C
410 Herman Ione ⊚	102	G7426 C W A Manufacturing Inc machine
412 Mills Tobias ⊚ 789-2404	STANLEY RD INTERSECTS	tools 686-3030
414 Edwards Brenda	G7017 Vacant	G7430 Whitney Construction Co 686-3268
416 Kasuboski Marjorie ⊚	G7024 Laborers Local 1075 686-8381	Brady's Glass & Aluminum 687-014
418 Holder Richd	G7025 Michigan Converter rebuilders	G7435 Vacant
420★Sredich Jeanne S ⊚	687-2340	G7462 No Return
422 Roosa Irene @	G7031 Dort Transmission auto repr	G7463 Don's Appliance Repair
424 Holloway John	686-2550	G7472 Hutchison Wm L @ 686-3742
426*Herriman Timothy	G7040 Vacant	G7491 Carriage Stop cocktail lounge
EAST DR INTERSECTS	G7046 Moll Roger C ⊚ 686-7637	687-3520
500 Lawrence Dorothy Mrs ®	G7049 Clement C W ⊚	G7494 Dehner Paul D @ 686-8467
501*Mixdorf Mark	G7063 General Auto Collision 686-8200	G7502 Mauldin Thos H @ 686-6645
502 Fitzgerald Jean	G7073 Berry Susan	G7512 One Stop Shop
503 Arnold Robt C @ 785-6738	Vacant	G7515 Clark's Auction
504 Muchlenbeck Paul @	G7074 Rat-Tech Engineering 687-7020	G7517 Clark's Auction addl sp
505*Hampton Earl @ SU7-1348	G7085 La Freniere Rene P @ 686-4506	G7525 Pine Acres Auto Sls used auto sls
506 Vacant	G7092 Wilson Russ Karate	686-3430
508 Perry Reach M @ 785-8137	G7113 Big Jim & Son's Carpet & Furniture	E MT MORRIS RD INTERSECTS
508 Perry Bertha M ⊚ 785-0783	Cleaning 687-7355	G8005 Mama Janer's Take Out restr
509★Mulroney Eliz 510 Kops Karen E ⊚	*Blount Thelma	687-7111
	G7127 Hicky Clifton L	G8010 Sunshine Food Stores Inc 687-2190
511 Mc Carthy Joseph H @ 789-1670		G8043 Weddle Jack E @ 686-2124
512 Fields Becky Mrs ©	Showkeir James D @ 686-6510	G8067 Wolverine Fire Protection Co
513 Montague Patricia 789-2466 514 Wager Barbara ⊚	G7141 Burton Douglas A @ 686-0541	686-4630
514 Wager Barbara @ 515 Young Jay	G7153 Shanafelt Lois M @	G8078 Mountain Inn 686-8957
516 Gavit Ann © 785-8023	G7154 Vacant	G8087 F P C Incorporated consulting
517 Streeter Brent ©	G7159 Sorensen Joseph 686-3623 G7164 Vacant	engineers 687-3770
518 Vacant		G8107 Lyons Well Drilling Inc 686-3980
519 Giem Danl ®	G7181-1 Krull Robt O G7181-2 No Return	G8119 Clark Stanley R ®
520*Brownell Elwyn	7191 Apartments	G8150 Bigelow Jack E @ 686-4989
521 Goforth Robt ®	A1*Simons Chuck	G8158 No Return
522 Bell Jeff R 787-7393	A2 Baldwin J	G8172 Smith Opal V Mrs @ 686-1984
523★Cruce Kathy	A2 Baldwin 5 A3★Steel Alden	G8184 Steel Lois E Mrs @ 686-2727 G8196 Barrett
524 Habedank Duane D @ 785-5758	B1*Olszawy H	
CENTER DR INTERSECTS	C1 Vacant	G8203 Vacant G8213 Howland Nancy E Mrs @ 686-2406
525*Hayes James	E1*Einerwold S	
526★Roesner David	E2. Vacant	G8223 Howland Fern I Mrs @ 686-8545 G8238 Whitney Larry L @ 687-2406
		Gozdo Whitney Larry L @ b87-2406
527 Alexander Earl @ 787-7149	E3 Strait Lorri A	LEWIS RD INTERSECTS

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N DORT HWY (G TW	P)—Contd
G8311 Vida Frank ⊚ 6	87-0893
G8313 Johnson Deborah	L
G8329 Lee Jerry D	
G8347 Timmreck Gary	L WWW WOULDNA
G8373 Woods Richd L	⊚ 687-2084
G8375 Vacant	
Mittan Tom F ⊚	687-6033
G8376 Ryder Truck Ren	ital 686-7540
Stack-Stock N' L	ock storage
686-7540	
G8405 Stork L Dean 68	7-0788
G8425 Harcek Lewis J	© 686-6893
G8439 Trarop Wm F ⊚	
G8457 Dahl Laura E M	
G8460 Skateland Roller	
G8499 Mount Morris Ch	urch Of The
Nazarene 687-15	
G8500 North Dort Mand	or Ltd mobile home
park 687-0430	
Dort Manor Store	
G8521 Griebe Wm J ⊚	
G8537 Ronco Coin Op V	Vasher & Dryer Co
686-3360	THE PERSON NAMED IN THE PE
Kremski Ronald	
FRANCES RD INTER	SECTS

Source POLK DIRECTORY CO

## E CARPENTER RD 1980

IUC

# CARPENTER RD EAST (GENESEE TWP)—FROM G5000 N SAGINAW EAST TO DORT HWY

ZIP CODE 48505

G1037 Mott Trailer Rental SU9-7137 Mott David G

G1053 Bogart James

G1055\*Mahnke Lee 785-1757

G1059 Stewart John E

G1067 Arthur Sharon M Mrs 789-7153

G1073 Aylsworth Robt E ⊚ 789-8979

G1085 Anderson Wm S @ SU9-0086

G1087 Robinson Alec

G1091 Spight's Asphalt 785-9527

G1097 Horton Christian

G1105 Williams Herman G 787-4347 GEORGE ST BEGINS

G1119 Fox Pearl A Mrs @ 789-5128

G1157 Bowen Vashtie Mrs @

G1167 Holmes James H @ 785-2357

G1171 Miller Murrel G @ 785-0798

G1177 Hyde Emma Mrs @ 787-9283

G1183 Ellers Mason

G1186 Vacant

G1187 Vacant

ALFRED BEGINS HARRY BEGINS

G1353 Vacant

G1369 Thompson Robt K ⊚ SU5-7274

G1379 Vacant

G1383 Vacant

G1399 Perakovic Anthony T @ SU9-0927

G1411 Vacant

G1423 Vacant

G1459 Parker's Philgas Co (Bulk Plant) bottled gas 787-5341

C & O RY CROSSES DORT HWY INTERSECTS

Source POLK DIRECTORY CO

IUZ

E FRANCES RD

1980

FRANCES RD EAST (GENESEE TWP)
FROM G8518 N SAGINAW EAST TO
N DORT HWY

ZIP CODE 48458 G1020 Devanoff M G1037 Bott Valentine J © 686-2968

#### E FRANCES RD 1980

G1046 Mc Griff Elmer J ◎ 686-4445

G1053 Miller Connie L Mrs

G1061 Coha Anna M Mrs @ 686-6408

G1062 Irving Leo F ⊚ 686-2733

G1067 Wigginton A T ⊚ 686-8421

G1080 Sautter Earl J @ 686-6474

G1083 No Return

**Target Street** 

G1105 Perry Almon A ⊚ 687-2456

G1138 No Return

G1142 Shinabarger Donald 687-1471

G1143 Washburn Dallas L @ 687-2387

G1144 Griffin Leah L Mrs @ 686-4184

G1145 Winterlee Laurin A @ 686-6895

G1146 Hunt Lawrence A @

G1148 Goode Floyd M @ 686-7965

G1153 Baker Ervin ⊚ 686-7835

G1154 Intawong Kasem @ 686-9781

G1159 Delling Harold D @

G1160 Kovacs Julius J ⊚ 687-0498

G1168 Stadler Leo L @ 686-4171

1169 Delling Danny R ⊚

G1176 Satkowiak Leon J @ 686-8515

G1181 Culhane Donald

G1193 Werda Jerry J ⊚ 686-7389

G1207 ★ Jones Lavene

1208 Groulx Jeffrey B ⊚ 686-4577

G1216 Tyree Sandra E Mrs ⊚ 687-3755

G1223 Stone Agnes L Mrs © 686-7531

G1225 Nettleton Richd L @ 686-8833

G1233 Clement Michl ◎ 686-2036

G1241★Palmalter Floyd

G1247 Jenkins Paul S ⊚

G1263 Williamson Doyle ⊚ 686-2982

N DORT HWY INTERSECTS

E STANLEY RD

1980

# STANLEY RD EAST (GENESEE TWP) FROM N SAGINAW EAST TO DORT HWY

ZIP CODE 48458

G1027 Pease Vera Mrs @ 686-3443

G1033 Iverson Emo @ 687-2051

G1037 No Return

UNION BEGINS

G1047 Lemmon Donald L @ 686-7747

G1097 Bentley Paul @

G1131 Rau Keith M @ 687-0032

G1139 Blandford Harry W @ 686-3261

G1147 Esmond Loretta A Mrs 686-6771

G1155 Van Alst Gary 687-4964

G1207 Kenworthy Mary Mrs @ 686-4311

G1278 Thrash Duwain H ⊚ 686-4324

G1289 No Return

G1290 Andrews Kendall R @ 686-8741

G1297 Ehrhart Mina N Mrs © 686-8104

G1297½ Foster Orion M 686-2413

G1302 Smith Kathryn P ⊚ 686-8787

G1320

Greinier John H asphalt contr 

687-3766

G1439 Bridges L

LEWIS RD INTERSECTS

G2013 No Return

G2021 No Return

N DORT HWY INTERSECTS

N DORT HWY (G TWP)—Contd	EAST DR INTERSECTS	508 Perry Bertha M 785-0783
G5320 Vacant	201 Vacant	509*Lason Leonare
G5339 Vacant	204 Cassels Mary 789-1507	510 Simpson Karen E 787-1356
G5340 Mobil Heating Service 789-9194	205 Vacant 206 Vacant	511 Mc Carthy Joseph H 789-1670 512 Fields Gerald
Mobil Oil Corp (TERM) 789-9194 Mobil Oil Corp (T B A) 789-9184	207 Vacant	513*Montague Patricia
G5355 Vacant	212 Comstock Lucille J 787-8823	514 Wager Barbara
G5357 Vacant	213 Vacant	515*Kennedy Dani
G5388 Buckeye Pipe Line Co The 789-9279	214★Hall Kevin	516 Gavit Ann 785-8023
G5395 Barkman Automotive 785-9511	215 Vacant	517 Davis Frances
Barkman Leslie J	219★Warren Alvin	518 Westfall Craig
G5403*Hill Howard 785-1535	220 Wash Room	519 Westerman Judith
G5412 Foxe's Den tavern	CENTER DR INTERSECTS	520 Runner Herschel E 787-7263
G5420 Vacant	223 Vacant 231 Hutton Retha Mrs 785-8433	521 Goforth Robt 522★Bell Wm
G5421 Vacant G5422 Al's Towing & Truck Service	231 Futton Retna Mrs 780-8433	523 Otto Lynn
787-5804	EAST DR INTERSECTS	524 Habedank Duane D 785-5758
G5432 Brewer Leo S 789-8895	300*Todd Roger	CENTER DR INTERSECTS
G5439*Valkoun Betty A 787-3806	301*Chuck Melvin	525★Craddock Lovell
G5449 Frame Sylvia Mrs	302 Inbody Beverly .E	526 Berry Claude
G5452 Flint Motel 785-9573	303★Crossnoe Jerry	527★Alexander Earl
G5455 Angers Walter J 789-0212	304 Powers Helene 785-9697	528 Kidd James R
G5468 Schaaf Pre-Cast Step Co concrete	305★Baumgart Rodney	529±Jurkiewicz Marie
contr 789-2071	306 Berry David	530 Vacant
G5469 Stables Restaurant The 789-2241	307 Young Keith 789-1342	531★Mrhoms John
G5522 Vacant	308★Aurem Lois	532★Mc Clave Joyce
5523 Apartments 1 Vacant	309 Vacant 310 Mulroney Eliz R 785-2730	533 Morin Jean 787-2195 534 Kimmel Myron 787-2988
2 Hawkins Jeannie 787-6138	310 Mulroney Eliz R 785-2730 311 Muehlenbeck Tom C 787-4620	534 Kimmel Myron 787-2988 535 Gillmore Arth
3 Crawford Luther B	312 De Guise Robt	537 Gere Wayne
4 Vacant	313 Partin Charles	601*Whitehead A Louise
5 Benson Fred J	314*Krascell Lewis 789-5179	603 Hale Stanley C ⊚ 787-4656
	315 Vacant	605★Hildebrand Karen
104	316 Mc Glone June E 785-3866	607 Paulson Rhoda
COLDWATER RD INTERSECTS	317 Prance Wm Jr	609#Jackson Urval
MT MORRIS PO	318 Knoll Irma 789-6743	EAST DR INTERSECTS
ZIP CODE 48458	319 Sokola Steve 785-8919	G6149 Pease C
G6065 Marathon Oil Co (Br)	320 Vacant	G6190 Moore Wildman A ⊚ 789-8333
G6129 Vacant	321*Morrow Ganeatine	G6203 No Return
G6136 Gunther Mobile Home Court &	322*Marin Geo	G6368 Arminda's Health Service Inc
Sales Inc SU9-3771 Gunther Richd L 789-3771	323*Ryan Randy	nursing home 686-6740 G6369 Vacant
Lots	324 Sharp Robt J 785-3700 325*Rye Thos	G6406 Todd Betty D Mrs 636-7304
100 Gideon Ervin	326*Papineau John	G6409 Lee Theo W @ 686-4900
101 Preston Donald	327★Mott John	Tip-O-Le Doggie Motel kennel
102 Frase Mark	328★Anderson Chas	686-4900
103★Elliott Mary	329★Coutre Donna	G6439 Vacant
104 Morrow Harry	330 Rumans Pearl E Mrs 785-9947	G6442 White Swan Motel 686-3680
105 O'Brien Jack R 785-5325	CENTER DR INTERSECTS	Cain Jessie M Mrs @ 868-3680
106 Hobson Elsie Mrs	331★Gust Geo	G6451 Creed Frances J
107★Watkins John	332★Grewe Ann	G6455 No Return
108 Ayotte Clara	333 Haacker Bertha 785-8663	G6463 Reno Dale E @ 686-4188
WEST DR ENDS	334*Maurer Gary	G6465 Golnbiewski Adolph ⊚ 686-4852
109 Gilkd Cecilia	335 Parks Gladys	G6470 Vacant
110 Vacant 111 Vacant	336 Thomas Patrick 337*Andrews Dorothy	G6485 Goins Elmer   C6521 Kingsley Dorris F Mrs @ 686 395
112*Hudnall Randall	338 Gandamy John	G6531 Kingsley Dorris E Mrs ⊚ 686-395
113*Shumaker Penny	339 Hobbs Rosa 787-4244	
114*Burns Harold	341*Decker Donald	STANLEY RD INTERSECTS
115★Rehil James	343 Gallagher Michl J 785-3500	G7017 Vacant
116 Byrnes Mary Mrs	345 Rayburn Roland	G7024 Laborers International N America
117 Kunstman Arth Jr 787-4452	EAST DR INTERSECTS	1075 (A F Of L) 686-8381
118*Pagnier Debra	Vacant	G7025 Michigan Converter rebuilders
120★Murgas Dale	404*Hatmarker Jeffrey	687-2340
122 Grimes Fred B 789-3058	406★Munger Michl	G7031 North Dort Transmission Inc auto
CENTER DR INTERSECTS	408 Vacant	repr 686-2550
123★Bennett Philip	CENTER DR INTERSECTS	G7040 Springwood Garden 686-3440
124★Goselin Cindy	410 Herman Ione	No Return
125 La Bean Cecelia 126 Vacant	412±Salgot Christopher 414±Wanger Debra	G7046 Moll Roger C 686-7637
126 Vacant 127 Morris Lewis	414 wanger Debra 416 Kasuboski Marjorie	G7049 No Return G7073 Vacant
128 Campbell Tyler	418 Matthews John	G7073 vacant G7073½ Freeman's Jack Auto City auto
129 Truett Randy	420 Van Brocklin Raymond 789-5079	dlr 686-9320
130★De Vore Steven	422 Killips Marcia	G7074 Vacant
131★White David	424★Hollis Ava	G7085 La Freniere Rene P @ 686-4506
132 Glover Thelma	426★Eaton Nancy	G7092 All Seasons Trailer Sales 686-5050
133 Vacant	EAST DR INTERSECTS	G7113 Cummings Leo A Agency ins
134 Day Roy A 789-8628	500 Lawrence Dorothy Mrs 787-4928	686-2610
135★Whitting Richd	501★Wild Robt	G7127 Hicky Clifton L
136 Richardson Steven	502 Todd Ruth Mrs 785-4274	G7134 Millie's Motel 686-6510
137 Vacant	503 Arnold Robt C 785-8883	Taylor Millie Mrs © 686-6510
138 Silvernail Zora 785-5950	504 Muehlenbeck Paul 787-7810	G7141 Rosevear Clara V Mrs © 686-476
139 Gunther Fred	505 Rock Jean Mrs SU7-1348	G7153 Shanafelt Louis M 687-4182
140*La Fever Glenn 146 Pearce Wm	506 Trevarthen James 507 Jerome Genevieve M 785-8137	G7154 La Sabre Lounge tavern 687-1860 G7159 No Return
	DUL Jerome Genevieve M (85-813)	TYLIDA IND REDILL

N DORT HWY (G TWP)-Contd G7164 George's Barber Shop 686-2740 G7181 Vacant 7191 Apartments 1 Domonic M 2 Birmingham P 3\*Campbell Odell 4\*Duvall Don 5 Vacant G7192 Northland Drive In Theatre 686-4800 Carter Lyle O 686-9598 G7200 Guyer Donna J Mrs @ 686-3653 G7220 Keen Fred G Jr @ 686-4012 G7223 Hughes John A @ G7243 Van Alst Roger D @ 686-2191 G7246 Taft Jesse A @ 686-9692 G7257 Vacant G7260 Treece Geo R ⊚ G7269 Craig Paul B @ 686-8103 G7293 Kuhle Anthony L @ 686-6038 G7305 Ratcliffe's Barber Shop G7307 Ferris Wayne E ⊚ 686-4621 G7315 No Return G7351 Dort Manor Apartments 1\*Dicken Shel 2 Vacant 3 De Long Gary T 686-2987 4 Vacant 5 Vacant 6★Hetzer Violet 7 Jacobs Sylvia 687-3516 8\*Munsey Jerry V 686-9936 9 Goss Rondal 10 Vacant G7352 Ceramic World ceramic greenware 686-8130 G73521/2 Signs Etc 687-3431 G7359 No Return G7365 Kerrison Manufacturing auto & truck water pumps 686-3740 Kerrison Wm L G7377 Vacant G7383 Zahm Earl G @ 686-4730 G7389 Bell Lester @ 686-2284 G7397 Slips Custom Cycle Sls 686-6480 G7406 C W A Manufacturing Inc mach tools 686-3030 G7411 Banks Arnold E 686-7794 G7425 Vacant G7430 Brady's Aluminum Center 687-0140 G7435 Groshon Farm Supplies agrl impl 686-6870 G7462 Bob's Enterprises 686-3041 Elkins Robt E @ 686-3976 G7472 Hutchison Wm L @ 686-3742 G7477 Vacant G7491 Carriage Stop cocktail lounge 687-3520 G7494 Dehner Paul D ⊚ 686-8467 G7502 Mauldin Thos H ⊚ 686-6645 G7515 Ser Se Beauty Salon 686-4780 G7517 Pietros Pizzeria 687-0880 G7525 Vacant E MT MORRIS RD INTERSECTS G8005 Vacant G8010 Sunshine Food Stores Inc 687-2190 G8020 No Return G8043 Weddle Jack E ⊚ 686-2124 G8067 Wolverine Fire Protection Co 686-4630 G8078 Sam's Place tavern 686-8957 G8087 Wolverine Fire Protection (Addl Space) G8107 Lyons Well Drilling Inc 686-3980 G8119 Clark Stanley R ⊚ 686-7288 G8150 Bigelow Jack E ⊚ 686-4989 G8158 No Return G8172 Smith Lymen @ 686-1984 G8184 Steel James A @ 686-2727 G8196\*Porter Don . G8213 Howland Dick S ⊚ 686-2406 G8223 Howland Wm W ⊚ 686-8545 G8238 Whitney Larry L ⊚ 687-2406 LEWIS RD INTERSECTS

G8289	Vida Joseph P ⊚ 686-2991
G8311	Vida Frank ⊚ 687-0893
G8313	No Return
G8329	No Return
G8347	Tucker O L
G8373	Woods Richd L @ 687-2084
G8375	Culinski Ludwig A @ 686-3992
G8405	Stork L Dean 687-0788
G8425	Harcek Lewis J ⊚ 686-6893
G8439	Harcek Geo J ⊚ 686-2355
G8457	Dahl L E ⊚
G8460	Skateland Roller Rink 686-6110 Mc Combs Danl J © 686-4566
G8499	Mount Morris Church Of The
00500	Nazarene 687-1590
G8500	North Dort Manor Ltd mobile home park 687-0430
G8521	Griebe Wm J ◎ 686-4120
G8537	Ronco Coin Op Washer & Dryer Co 686-3360
	Kremski Ronald G @ 686-3360
FRA	NCES RD INTERSECTS

Target Street Cross Street Source

POLK DIRECTORY CO

## E CARPENTER RD 1975

106 CARPENTER RD EAST (GENESEE TWP)-FROM G5000 N SAGINAW EAST TO DORT HWY (FLINT PO) ZIP CODE 48505 G1021 Vacant G1031 Frank's Trailer Rental SU9-7186 G1037 Mott Trailer Rental SU9-7137 G1053 Mott Gordon C 789-7137 G1055 Evans Leila R Mrs @ SU9-6711 G1059 Stewart John E 787-9434 G1067 James Mattie Mrs @ G1073 Aylsworth Robt E @ SU9-8979 G1085 Anderson Wm S @ SU9-0086 G1087 Vacant G1091 Vacant G1091½ Vacant G1105 Williams Henry @ SU7-8272 GEORGE ST BEGINS G1119 Fox Pearl A Mrs @ SU9-5128 G1133 Apartments 1 ★ Flenard Ruth 787-9320 2 No Return 3 No Return 4 No Return 5 ★ Detrick Louis 6 Vacant 7★Young James 8 \* Rogers Erlean 10 Vacant G1145 Apartments 5 Vacant G1157 Bowen Vashtie Mrs @ 785-9427 G1163 Vacant G1167 Holmes James H @ 785-2357 G1171 Saylor Laura B Mrs @ G1177 Hyde Emma Mrs @ 787-9283 G1183 No Return G1187 Vacant G1193 Style & Fashion Beauty Salon SU7-3980 G1197 Vacant G1203 Suffel Ruth M Mrs @ G1207 Vacant G1213 Dawson Fred G1217 Vacant ALFRED BEGINS G1327 Edwards Oneal HARRY BEGINS G1349 Harvey Joseph L G1353 Skaggs Pink @ G1369 Thompson Robt K @ SU5-7274 G1379 Vacant G1383 Vacant G1399 Perakovic Anthony T @ SU9-0927 G1423 Vacant G1433 Clark Larry L G1459 Parker's Philgas Co (Bulk Plant) 787-5341 C & O RY CROSSES DORT HWY INTERSECTS

E FRANCES RD

1975

# FRANCES RD EAST (GENESEE TWP) FROM G8518 N SAGINAW EAST TO N DORT HWY (MT MORRIS PO)

ZIP CODE 48458

G1020 Diminoff Theresa Mrs @ 686-6910

G1037 Bott Valentine J ⊚ 686-2968

G1046 Mc Griff Elmer J @ 686-4445

G1053 ★ Mason Glenn ◎

G1061 Coha Ann M Mrs @ 686-6408

G1062 Irving Leo F ⊚ 686-2733

G1067 Wiggington A G @ 686-8421

G1080 Sautter Earl J ⊚ 686-6474

G1083 Ruff Geo E @ 687-2755

G1105 ★ Davis C

G1138 Vacant

G1142 Marvin Jerome F @ 686-6424

G1143 Washburn Dallas L @ 686-4774

G1144 Griffin Wm D @ 686-4184

G1145 Winterlee Laurin A @ 686-6895

G1146 ★ Mecum Charles W Jr ⊙

G1148 Goode Floyd M @ 686-7965

G1153 Baker Ervin @ 686-7835

G1154 Huffman Harvey L @ 686-0225

G1159 Delling Harold D @

G1160 Kovacs Julius J @

G1168 Stadler Leo L @ 686-4171

Source POLK DIRECTORY CO

E FRANCES RD

1975

G1176 Satkowiak Leon J © 686-8515
G1181 Brett James G © 686-8025
G1193 Werda Jerry J © 686-7389
G1207 La Vene James L © 686-2887
G1223 Stone Agnes L Mrs © 686-7531
G1225 Nettleton Richd L © 686-8833
G1233 Clement Michl © 686-2036
G1241 Swinehart Paul A © 686-5164
G1247 Jenkins Paul S ©
G1263 Williamson Doyle © 686-2982
G1275 Vacant
N DORT HWY INTERSECTS

## E STANLEY RD 1975

# STANLEY RD EAST (GENESEE TWP) FROM N SAGINAW EAST TO DORT HWY (MT MORRIS PO)

ZIP CODE 48458

G1027★Nelms Cynthia ⊙

G1033 No Return

G1037 Bartz Allen W @ 687-2712

UNION BEGINS

G1047 ★ Walker Chuck © 686-7147

G1097 Bentley Paul

G1131 Rau Keith M @ 687-0032

G1139 Blandford Harry W @ 686-3261

G1147 Esmond Harold A @ 686-6771

G1155 Clayton Duane W 687-1257

G1207 Kenworthy Mary Mrs @ 686-4311

G1278 Thrash Dewayne H @ 686-4324

G1289 Matteson R F Jr 686-1617

G1290 Andrews Kendall R @ 686-8741

G1297 Ehrhart Mina N Mrs @ 686-8104

G12971/2 Vacant

G1299 Lee Willard

G1302 Smith Cecil J ⊚ 686-8787

G1320 ★ Greenier J M © 687-3766

G1439 Craddock Lovell L @

LEWIS RD INTERSECTS

G2013 Walker Charles E ⊚ 686-6513

G2021 Vacant

N DORT HWY INTERSECTS

**Target Street** 

## N DORT HWY 1975

### DORT HWY NORTH (GENESEE TWP) FROM E CARPENTER RD NORTH TO FRANCES RD (FLINT PO)

ZIP CODE 48505

G5006 Eddie's Party Store (Stge)

G5009 Riskin Bros Automotive Parts SU9-0661

G5010 Eddie's Party Shop Inc beer 789-7411

G5049 Al's Towing auto repr 787-5804

G5063 Trio Plastic Industries Inc tool mfg 785-3477

G5069 Vacant

G5075 National Welding Supply Co 785-7878

G5107 Michigan Auto Parts SU7-3361

G5135 Vacant

G5145 G & G Auto Parts SU9-8131

G5150 Kayo Oil Co gas sta 789-9792

G5158 Anchor Conveyors 785-8601

G5167 Vacant

G5168 Vacant

G5172 Vacant

G5182 Turner & Mc Lean Supply Co whol bldg matl 787-2509

G5196 North Dort Hwy (Whse) SU9-5421

G5199 Vacant

G5201 Haies Wesley

Rear Jim's Collision (Addl Space)

G5220 Bill & Burgie's Garage auto repr 787-6171

G5273 Reno Auto Parts SU9-9311

G5300 Kurtz Gravel Co 787-6543

G5305 Young Excavating Inc 789-0746

G5339 Vacant

G5340 Mobil Heating Service SU9-9194 Mobil Oil Corp (TERM) 789-9180 Mobil Oil Corp (T B A) 789-9184

G5355 No Return

G5357 Vacant

G5388 Buckeye Pipe Line Co The SU9-9279

G5403 Smith Steve D @ 785-1596

G5412 Checker Lounge tavern 787-5501

G5420 B & S Collision 787-1201

G5421 Vacant

G5426 Vacant

G5432 Brewer Leo S SU9-8895

G5439 Naples Wm © 789-1030

G5449 Vacant

G5452 Flint Motel 785-9563

G5468 Shaaf Pre-Cast Step Co concrete contr SU9-2071

G5469 Stables The tavern 789-2241

G5492 Vacant

G5512 Vacant

G5522 Vacant

5523 Apartments

1 Dunlap Cindy

N DORT HWY (G TWP)—Contd	223 Vacant (Lots 223-226)	506 Vacant
4 No Return 3★Rappoon Mary S	227 Mitchell Ron 228 Vacant	507 Fraizer Paul 508 Habedank Duane 785-5758
4 No Return	229 Kerry Ethel 785-4716	509 Mason John
5*Syth Jane	230 Vacant	510 Simpson Karen
	231 Hutton Retha Mrs	511 Mc Carthy Joe
104	232 Vacant	512 Anderson Eug
COLDWATER RD INTERSECTS	233 Vacant	513 Montague Leslie C 787-3624
MT MORRIS PO	234 Vacant	514 Manor Kirk
ZIP CODE 48458	235 Vacant	515 Simpkins Dennis
G6065 Marathon Oil Co (Br) SU5-0841	236 Vacant	516 Trombley Donald
G6129 Ball Sales & Service tractor whse	237 Vacant	517 ★ Marme Herbert 789-2528
785-3406	238 Vacant	518 Bell James
G6136 Gunther Trailer Court Inc SU9-3771	239 Maynard Ray	519 Helzer James
Gunther Richd L 789-3771	240 Vacant	520 Runner Herschel 787-7263
N DORT HWY INTERSECTS	EAST DR INTERSECTS	521 Ludwig David 785-6472
N PARK DR BEGINS Lots	300 Busque Paul J 785-8666	522 Brethauer Keith 787-5437
100 Vacant	302 Inbody Beverly E 303 Vacant	523 Otto Roy H 787-3032 524 Ahl Glenn
101 Mulhammand David 787-7298	304 Jerome Genevieve	CENTER DR INTERSECTS
102 Manley Rick	200 P P 11	525 Sheroski David
103 Sholler Vicki	307 Vacant	526 Anderson Rose 789-2987
104 Morrow Harry	308 Rozinski Roger	527 Paulin Louis
105 ★O'Brien Jack R	309 Bohms Charles 785-2186	528★Kidd James
106 Vacant	310 Mulroney Eliz R 785-2730	529 Sorensen Donald
107 Vacant	311★Muelenbeck Tom	530★Smith Meida
108 Botas Paul	312 Vacant (Lots 312-315)	531 Abbe Barbara
WEST DR ENDS	316 Mc Glone June	532 Zouichlack Dana
109 Vacant	317 Vacant	533 Morin Jean
110★Freeman Jim	318 Perry Bertha Mrs 785-0753	534 ★ Kimmel Myron 780-0783
111 Vacant	319 Sokola Steve	535 Norling Susan
112 Freeman Thos	320 Vacant	537 Vacant
113 Haacker Bertha Mrs 785-8663	321 Gwaltney Alan	601 ★ Seagras Brian ⊚
114 Partin Wm	322 Hale Stanley	603 Harmon Sue ©
115 Lucas James	323 Meek David	605 Allen Craig
116 Thompson Linda	324 Sharp Robt	609 Robinson Ruth ©
117★Roof R	325 Rumans Pearl	EAST DR INTERSECTS
118 Norris Harold	326 Calhoun John C M Jr 789-1828	G6149 Pease Joseph 787-8462
120 Vacant	327★Lee Lenny	G6190 Moore Wildman A @ 789-8333
122 Vacant	328 Schnarr Richd	G6203 Vacant
CENTER DR INTERSECTS	329 Vacant	6308★Thomason Walter
123 Gunther Carl F Jr 787-9286	330 Kydd James	G6350 Vacant
124 Vacant	CENTER DR INTERSECTS 331 Vacant	G6368 Arminda's Nursing Home 686-6740
125 Vacant 126 Vacant	332 Smith Wm	G6369 Northwoods Recreational Vehicle Center 686-4330
127 Keefhaver Mildred	333 Vacant	G6406 Todd Betty D 686-7304
128 Vacant	334 Childers Andrew	G6409 Lee Theo W @ 686-4900
129 Vacant	335 Harmon Larry	Tip-O-Le Doggie Motel 686-4900
130 Lake Susan	336 La Porte Jack O SU7-7270	G6439 Starting Gate Lounge 687-0960
131 Vacant	337 Vacant	G6442 White Swan Motel 686-3680
132 Glover Thelma	338 Olds Walter	Cain Jessie M
133 Casey John P 789-0866	339 Schaeffer Melvin	G6451 * Creed Francis 686-4825
134 Day Gloria G	341 Vacant	G6455 Gordon Dean E 686-5420
135 Vacant	343 Gallagher Michl 785-3500	G6463 Reno Dale E @ 686-4188
136 Carr Charles	345 Whitmill Kenneth	G6465 Golnbiewski Adolph @
137 Vacant	EAST DR INTERSECTS	G6470 * Tobin Gerald 686-3396
138 Silvernail Zora	402 Vacant	G6476 Tucker Charles A @ 686-8398
Suzan's Dog Grooming 789-3763	404 Santag Harvey	G6485 Goins Elmer ©
140 ★ Yager Steven	406 Hale Wm	G6500 Conger Lynne Mrs
142 Vacant	408 Derositt Gertrude	G6531 Kingsley Dorris E Mrs © 686-3958
144 Vacant	CENTER DR INTERSECTS	
146 Hendricks Francis	410 Herman Ione	1
EAST DR INTERSECTS	412★Robertson Mark	STANLEY RD INTERSECTS
201 Merrill Marvin	414 Vacant	G7017 Flint Kawasaki 687-0000
202 Vacant	416 Vacant	G7024 Laborers International Of N
203 Vacant	418 Matthews John W	America 1075 A F Of L 686-8381
204 Wonch Joseph 789-8084 205 Vacant	420 Gavit Ed	G7025 Fletcher Engineering & Auto Parts 687-2340
206 Moore Paul	422 Bourque Marcia Mrs 424 Vacant	G7031 North Dort Automatic Transmissio
207 Vacant	424 Vacant	Service auto repr 686-2550
208 Vacant	EAST DR INTERSECTS	G7040 No Return
212 Comstock Lucille	500 Lawrence Dorothy Mrs 787-4928	G7046 Moll Roger C 686-7637
213 Downing Ruth	501 Graham Wm C 787-8862	G7049 Vacant
214 Vacant (Lots 214-218)	502 Todd Earl	G7063 Advance Insulation Co 687-0710
219 Greenfield Floyd 785-8447	503 Glenn Mary	G7073 Vacant
220 Wash Room	504★Muehlenbeck Paul 787-7810	G7085 La Freniere Rene P ⊚ 686-4506
CENTER DR INTERSECTS	505 Rock Jean Mrs SU7-1348	G7092 All Seasons Trailer Sales 686-5050

	VI 1973
N DORT HWY (G TWP)-Contd	G8081 No Return
G7113 Cummings Leo A Agency ins	G8087 Ware Australia © 686-6666
686-2610	G8107 Lyons Well Drilling 686-3980
G7127 No Return	G8119 Clark Stanley R @ 686-7288
G7134 Millie's Motel 686-6510	G8150 Bigelow Jack E @ 686-4989
Musty Edna	G8158 No Return
G7141 Rosevear Clara V Mrs @ 686-4767	G8172 Brady Opal V Mrs @ 686-1984
G7153 No Return	G8184 Steel James A @ 686-2727
G7154 La Sabre Lounge tavern 682-0220	G8196 Carrier Arnold @ 686-8765
G7159 Duffing Percy J ⊚ 686-4241	G8203 Vacant
G7164 George's Barber Shop 686-2740	G8213 Howland Dick S @ 686-2406
G7181 Vacant	G8223 Howland Wm W @ 686-8545
G7191 R-Clan Motel 686-4291	G8238 ★ Whitney Larry L @ 687-2406
Rothgeb Forrest R @ 686-4291	G8289 Vida Joseph @ 686-2991
G7192 Northland Drive In Theatre	LEWIS RD INTERSECTS
686-4800	G8311 Vida Frank @ 687-0893
G7200 Guyer Orville A @ 686-3653	G8313 Koivupera Linda K 686-1392
G7220 Keen Fred G Jr @ 686-4012	G8329 Hosack Harold H @ 686-8043
G7223 Hughes John A @	G8347 No Return
G7243 Van Alst Roger D @ 686-2191	G8373 Woods Richd @ 687-2084
G7246 Taft Jesse A ⊚ 686-9692	G8375 Culinski Ludwig A ⊚ 686-3992
G7260 No Return	G8405 Kincade Horace L @ 686-3845
G7269 Craig Paul B @ 686-8103	G8425 Harcek Lewis J @ 686-6893
G7293 Kuhle Anthony L @ 686-6038	G8439 Harcek Geo J @ 686-2355
G7305 Ratcliffe's Barber Shop	G8457 Dahl Clifford E ⊚ 686-2138
G7307★Smith Charles Jr	G8460 Skateland Roller Rink 686-6110
G7314 Vacant	G84601/2 Mc Combs Danl 686-6110
G7315 White Jesse E ©	G8499 Mount Morris Church Of The
G7340 Vacant	Nazarene
G7351 Morcey Manor Apartments	G8500 North Dort Manor
1 * Guera Adelina	G8521 Brown Joseph P @ 686-6143
2★Mc Ginnis O	G8537 Ron's Washer & Dryer Repair
3★Mallak Leonard	Service 686-3360
4★Norton T 5 Widigan Larry 686-2512	Kremski Ronald G ⊚ 686-3360 FRANCES RD INTERSECTS
6 Jackson Carla	FRANCES RD INTERSECTS
7 Vacant	12
8 Mc Derman Bud	DORT HWY SOUTH (BURTON &
9★Campbell Glen	GRAND BLANC TWP)-FROM E
10★Gel David	ATHERTON RD SOUTH BEYOND
G7352 Hopps Geo Cycle Sales 686-0700	GIBSON (FLINT PO)
G7352½ Vacant	777777 77777 7777
G7359 Massey Glenn A @ 686-8073	ZIP CODE 48507
G7365 Kerrison Manufacturing auto &	G3009 Ivanhoe Farms Food Market prod
truck water pumps 686-3740	PI2-2356
Kerrison Wm L Jr ⊚	G3029 Sav-Mor Stores Inc No 7 drug
G7377 New Year Furniture Co 686-7470	743-7690
G7383 ★ Zahm Earl G ⊚ 686-4730	G3033 Parent Tom acct PI2-0560
G7389 Bell Lester @ 686-2284	G3071 Latreille Cleaners 743-3390
G7397 Vacant	G3085 Embers The lounge 742-4773
G7406 C W A Manufacturing Inc mach	LETA AV ENDS
tools 686-3030	G3103 Vacant
G7409 Vacant	G3111 Goodyear Service Store 742-7230
G7411 Banks Arnold E 686-7794	G3147 Color Tile PI2-9867
G7425 Skornicka John A @ 687-1532	G3149 Excel Building Center 742-8352
G7430 Brady's Aluminum Center 687-0140	G3165 Trevi Pizzeria 743-3550
G7435 Groshon Farm Supplies agrl impl	DELL AV INTERSECTS
686-6870	G3211 Vacant
G7462 Elkins Robt © 686-3041	G3223 Kuntz Tool & Die Inc mfrs P12-607
G7472 Hutchison Wm L @ 686-3742	G3231 Richvalsky Realty & Appraiser
G7477 Vliet Danny	743-0600
G7491 Carriage Stop 686-8952	G3235 Eleventh Frame Cocktail Lounge
G7494 Dehner Paul D @ 686-8467	742-9893
G7502 Mauldin Thos H @ 686-6645	G3239 Vacant
G7515 Ser Se Beauty Salon 686-4780	G3255 Sieloff Glass & Screen
G7517 Vacant	E HEMPHILL RD INTERSECTS
G7525 Mount Morris Standard Service	G3266 Palace Gardens Inc tavern 743-6420
	G3269 Thomas Russ Used Cars
686-8961	
686-8961 E MT MORRIS RD INTERSECTS	G3281 Crank's Motel 743-5173
686-8961 E MT MORRIS RD INTERSECTS G8005 Vacant	G3282 Gordon Engineering
686-8961 E MT MORRIS RD INTERSECTS G8005 Vacant G8010 Frank's Texaco Service	G3282 Gordon Engineering G3284 Vacant
686-8961 E MT MORRIS RD INTERSECTS G8005 Vacant G8010 Frank's Texaco Service Sunshine Food Stores Inc 687-0370	G3282 Gordon Engineering G3284 Vacant G3297 Iron Workers Local No 25 742-3820
686-8961 E MT MORRIS RD INTERSECTS G8005 Vacant G8010 Frank's Texaco Service Sunshine Food Stores Inc 687-0370 G8020 Damron Frank  ©	G3282 Gordon Engineering G3284 Vacant G3297 Iron Workers Local No 25 742-3820 G3311 Flint Golf Driving Range 743-6730
686-8961 E MT MORRIS RD INTERSECTS G8005 Vacant G8010 Frank's Texaco Service Sunshine Food Stores Inc 687-0370 G8020 Damron Frank  G8043 Weddle Jack  G806-2124	G3282 Gordon Engineering G3284 Vacant G3297 Iron Workers Local No 25 742-3820 G3311 Flint Golf Driving Range 743-6730 G3312 Genesee Welding Supply Inc
686-8961 E MT MORRIS RD INTERSECTS G8005 Vacant G8010 Frank's Texaco Service Sunshine Food Stores Inc 687-0370 G8020 Damron Frank  G8043 Weddle Jack E  G8067 Wolverine Fire Protection Inc	G3282 Gordon Engineering G3284 Vacant G3297 Iron Workers Local No 25 742-3820 G3311 Flint Golf Driving Range 743-6730 G3312 Genesee Welding Supply Inc 743-4150
686-8961 E MT MORRIS RD INTERSECTS G8005 Vacant G8010 Frank's Texaco Service Sunshine Food Stores Inc 687-0370 G8020 Damron Frank  G8043 Weddle Jack  G806-2124	G3282 Gordon Engineering G3284 Vacant G3297 Iron Workers Local No 25 742-3820 G3311 Flint Golf Driving Range 743-6730 G3312 Genesee Welding Supply Inc

#### E CARPENTER RD 1970

G1187 Waddle Wm H 789-2513
G1193 Style & Fashion Beauty Salon
785-9263
G1197 Vacant
G1203 Suffel Ruth M Mrs ©
G1207 Brooks John W Jr
G1213 Smith Willie A
G1217 No Return
ALFRED BEGINS
G1231 Vacant
G1233 Vacant
G1255 Vacant
G1267 Borg Kathleen Mrs ©
G1313 Vacant
G1327 No Return
HARRY BEGINS
G1349 Green Joe E S
G1353 Skaggs Pink
G1369 Thompson Robt K ⊚ SU5-7274
G1379 James Fred D ©
G1383 Kucher Michl © 785-7789
Easlick Albert
G1399 Perakovic Anthony P © SU9-0927
G1423 Larry's Refrigeration & Air
Conditioning Service SU5-9847
Lawrence Lacel L D SU5-9847
G1433 Clark Larry L
G1459 Parker's Philgas Co (Bulk Plant)
787-5341
C & O RY CROSSES
DORT HWY INTERSECTS

## E FRANCES RD 1970

102

# FRANCES RD EAST (GENESEE TWP) FROM G8518 N SAGINAW EAST TO N DORT HWY (MT MORRIS PO)

ZIP CODE 48458

G1020 Diminoff Theresa Mrs @ 686-6910

G1037 Bott Valentine J @ 686-2968

G1046 Mc Griff Elmer J @ 686-4445

G1053 Mason Grace M Mrs @ 686-6407

G1061 Coha Ann M Mrs @ 686-6408

G1062 Irving Leo F ⊚ 686-2733

G1067 Wiggington Anthony

G1080 Sautter Earl J @ 686-6474

G1083 Gouge H R

G1105 Davis Claude E @

G1138 Sabo Irene L Mrs

G1142 Marvin Jerome F ◎ 686-6424

G1144 Griffin Wm D @ 686-4184

G1146 Kulis Edw J @ 686-3192

G1148 Goode Floyd M @ 686-7965

G1153 Wittum Howard @

G1154 Huffman Harvey L @ 686-0225

G1159 Delling Harold D @

G1160 Kovacs Julius J @

G1168 Stadler Leo L @ 686-4171

G1176 Satkowiak Leon J @ 686-8515

G1181 Brett James G @ 686-8025

G1193 Werda Jerry J ⊚ 686-7389

G1207 La Vene James L @ 686-2887

G1217 Teague Dennis W @ 686-7392

G1223 Stone Agnes L Mrs @

G1225 Nettleton Richd L 686-8833

G1233 Clement Michl C @

G1241 Swinehart Paul A @ 686-5164

G1263 Williamson Doyle

N DORT HWY INTERSECTS

104

## E STANLEY RD 1970

STANLEY RD EAST (GENESEE TWP)
FROM N SAGINAW EAST TO DORT
HWY (MT MORRIS PO)

ZIP CODE 48458

G1027 Howard Maxwell G ⊚ 686-4532

G1033 Hill Geo S Rev

G1037 Clark Wm E @ 686-3105

UNION BEGINS

G1047 Gosselin Ned E ⊚ 686-2653

G1097 Bentley Paul C @

G1131 Vacant

G1139 Blandford Harry W ◎ 686-3261

G1147 Esmond Harold A @ 686-6771

G1155 Stewart Paul 686-7741

G1207 Kenworthy Mary Mrs @ 686-4311

G1278 Thrash Dewayne H @ 686-4324

G1289 Matteson Donald G @

G1290 Andrews Kendall R @ 686-8741

G1297 Ehrhart Fred O @ 686-8104

G12971/2 Hall Wm

G1299 Vacant

G1302 Smith Cecil J @ 686-8787

G1320 Ehrhart Fred O Jr ©

G1439 Creddock Lovell L @

LEWIS RD INTERSECTS

G2013 Walker Charles E ⊚ 686-6513

2021 Ware Australia @ 686-7056

N DORT HWY INTERSECTS

# POLK DIRECTORY CO

N DOK I HWY	1970
G5063 Tri-Angle Tool & Engineering Inc	111 Paul Adora L Mrs 787-0858
tool mfg 785-3561	112 Rich Raymond R 785-5294
G5069 Vacant	117 Bunch Betty
G5075 National Welding Supply Co	118 Smithwick Glenn
785-7878	Ensign Terry
G5107 Michigan Auto Parts SU7-7771	124 Mechury Gary
G5135 Carr's Collision 785-4183	127 Bailey Ruth Mrs 787-2018
G5145 G & G Auto Parts SU9-8131	128 Spromin Robt
G5150 Kayo Service Station 789-9792	129 Lintz Eva
G5158 Anchor Conveyors 785-8601	130 Ferrell Marvin 787-3942
G5167 Vacant	132 Head Wm 787-0083
G5172 Purzycki Barry @ 789-6185	133 Casey John P 789-0866
G5182 Turner & Mc Lean Supply Co whol	134 Kitchen Jean 785-7354
bldg matl 787-2509	136 Box Claude
G5191 Loomis Auto Parts & Junk	Barbour Michl Lee
G5196 Whse	142 Dunham Judy Mrs 785-0396
G5199 Vacant	144 Coon James 146 Diener Diane Mrs 789-3559
G5201 Haies Wesley	201 Merrill Marvin
G5214 Midnight Ballroom Dance Hall	
785-9327	204 Wonch Joseph 789-8084 205 No Return
G5220 Bill & Burgie's Garage auto repr	206 Moore Paul
787-6171	207 Hamilton Lewis M
G5273 Reno Auto Parts SU9-9311	208 Brown Ralph
G5300 Kurtz Gravel Co SU7-6543	209 Shigley Mike
G5305 Young Excavating Inc 789-0746	210 Kelsey Frances Mrs 785-3031
G5320 Vacant	212 Comstock Lucille
G5339 Hatter & Son's auto & truck parts	214 Konrad David
G5340 Mobil Heating Service SU9-9194 Mobil Oil Corp (TERM) SU9-9194	215 Lopez Frank
	216 Toler Henry
G5355 No Return G5357 No Return	217 Engel Gary B
G5371 Vacant	218 La Rue Robt
G5388 Buckeye Pipe Line Co The SU9-9279	219 Greenfield Floyd 785-8447
G5403 Coggins Jerome B  SU9-6340	226 Jeen Gary
G5412 Checker Lounge tavern	229 Kerry La Verne 785-4716
G5420 Camp's Bill Collision 787-1201	231 Hutton Albert C
G5421 No Return	233 Hammond Gary D 787-9445
G5426 Service Station Maintenance Shop	234 Brooks Lawrence 787-5777
G5432 Brewer Leo S SU9-8895	235 Vallaire Wm
G5439 Naples Wm ⊚	236 Cook Thos
G5447 Vacant	237 Wallis Richd
G5449 Vacant	238 D'Aigle Paul
G5452 Flint Motel SU9-9066	239 No Return
Ehrnst Bruce M 787-8960	240 Thrower Bessie
G5454 Ehrnst Frank @ SU9-9066	300 Busque Paul J 785-8666
G5455 Angers Walter J @ SU9-0212	Pearnt Jean 787-0942
G5468 Shaaf Pre-Cast Step Co genl contrs	Robinson Genevieve
SU9-2071	306 Mayo Don
G5469 Stables The tavern 789-2241	307 Main Ronald
G5492 Vacant	308 Steininger James 787-5939
G5512 Curtis Lawrence 789-6243	309 Rivard John 789-4753
G5522 Johnson's Collision 787-6251	310 Mulroney Eliz R 785-2730
G5523 Johnson Deloris Mrs 785-6493	311 Leckler Boyd 785-7273
Vacant	312 Block Earl
	313 Monte Gerald
104	317 Shangle Jean Mrs
COLDWATER RD INTERSECTS	318 Perry Bertha Mrs 785-0753
MT MORRIS PO	319 Slocum Gerald 789-7193
ZIP CODE 48458	321 Erwin Bill
G6065 Marathon Oil Co (Br) SU5-0841	322 La Haie Fred 785-4623
G6129 Ball Sales & Service tractor whse	323 Whitney Gerald
785-3406	325 Lash Grace
G6136 Gunther Trailer Court Inc SU9-3771	326 Emighs Kenneth D
Gunther Richd L SU9-3771	327 Blood Wm Jr 785-2556 328 Watson Leon 785-4512
Gunther C Fredk Jr	329 Calhoun John C M Jr 789-1828
Suzan's Dog Grooming & Trimmings	330 Brown Robt 787-0175
Alexander David 787-9878	332 Patterson Merlin 787-2670
Meade Boyd 787-1674	332 Patterson Merin 161-2616 334 Mancour Carl
Simpson Gerald	334 Mancour Carl 335 Harmon Larry
Gillispie Dennis	336 La Porte Jack O SU7-7270
103 Stefanic Saima H 785-4969	338 Revoir Clarence V 785-7779
Morrow Harry	343 Gallagher Michl 785-3500
Haynes Bob	402 Scoby Gary 787-2073
113 Haacker Bertha Mrs 785-8663	404 Ferguson C H
108 Mannor Kirk 785-0574	404 Ferguson C H 408 Szabo Joseph
Schenk Richd 116 Gaby Ronald 785-0908	410 Fowler Helen
	410 FOWIEL LICION

POLK DIRECTORY CO

# N DORT HWY 1970

N DORT HWY (G TWP)—Contd 414 Snyder Malcolm	Tom's Equipment Sales bulldozers cranes 686-7850	G7502 Mauldin Thos H @ 686-6645 G7512 Vacant
416 Sixberry James R 785-8884	G7073½ Vacant	G7517 J R Carpet Serv 686-3530
418 Matthews John W	G7085 La Freniere Rene P @ 686-4506	G7525 Vic's Standard Service 686-8961
420 Leotz Douglas	G7092 Avion Sales & Service Co trailers	E MT MORRIS RD INTERSECTS
422 Bourque Richd	686-5050	G8005 Floyd's Mobil Serv 686-8984
424 Butterfield Floyd G 785-4330	Ledyard Thos C @	G8010 Frank's Sinclair Service 686-8986
426 Gillies Archie 785-5877	G7113 Cummings Leo A Agency ins	G8020 Damron Frank ©
500 Lawrence Leroy 787-4928	686-2610	G8043 Weddle Jack E @
501 Graham Wm C 787-8862	G7127 Smith John C @ 686-3636	G8067 Wolverine Fire Protection Inc
	G7134 Millie's Motel 686-6510	686-4630
502 Clark Suzan E Mrs 789-3763	Taylor Ernest @	G8078 Place The tavern 686-8957
503 Dupont Arth P 789-3426	G7141 Rosevear Clara V Mrs @ 686-4767	
504 Montney John 789-7001	67153 Shanafelt Lois M ©	G8081 De Hart Thos O G8087 Vacant
505 Rock Jean Mrs SU7-1348		
506 Fielding Richd 785-4828	G7154 La Sabre Lounge tavern 686-6898	G8119 Clark Stanley R @ 686-7288
507 Peterson Mary	G7159 Duffing Percy J @ 686-4241	G8158 Nation Douglas L
508 Habedank Duane 785-5758	G7181 Smith Keith	G8172 De Long Herbert J @ 686-4989
510 Swart Craig	G7191 R-Clan Motel 686-4291	G8184 Steel James A ⊚ 686-2727
511 Sutherby Ronald 789-6121	Rothgeb Forrest R ⊚ 686-4291	G8196 Carrier Arnold @ 686-8765
512 Anderson Eug	G7192 Northland Drive In Theatre	G8203 Howland Richd
513 Montague Leslie C 787-3624	686-3430	G8223 Howland Wm W @ 686-8545
514 Harris Theo	Gill Charles O	G8238 Heidebreicht Wm D @ 686-2035
516 Savin Guy B 789-8034	G7200 Guyer Orville A @ 686-3653	G8289 Trench Colin
517 Keeler Roy H 785-5850	G7220 Keen Fred G Jr @ 686-4012	LEWIS RD INTERSECTS
	G7223 Hughes John A ⊚	G8313 Vida Frank
518 Voller Carol Mrs	G7243 Van Alst Roger D @	G8329 Hosack Harold H @ 686-8043
519 Helzer James	G7246 Taft Jesse A @ 686-9692	G8347 Tucker Bessie M Mrs @ 686-8657
520 Hampton Geo 787-7263	G7260 Wilson Lily A Mrs @ 686-8288	G8373 Woods Richd @
521 Tomsett Mason 785-6472	G7269 Craig Paul B @ 686-8103	G8375 Culinski Ludwig A © 686-3992
522 Brethauer Keith 787-5437	G7293 Kuhle Anthony L 686-6038	
523 Otto Roy H 787-3032	G7305 Sue & Kits Beauty Salon 686-5835	G8405 Kincade Horace L @ 686-3845
524 Ahl Glen	G7307 Patterson James © 686-5835	G8425 Harcek Lewis J @ 686-6893
525 Sheroski David	G7314 Vacant	G8439 Harcek Geo J @ 686-2355
526 Alexander Rose		G8457 Dahl Clifford E @ 686-2138
527 Clements Bobby	G7315 Brady Johnnie R @ 686-1984	G8460 Skateland Roller Rink 686-6110
528 Balla Pat J 785-0319	G7340 Hopps Geo	G84601/2 Mc Combs Willard 686-6110
530 Howey Geo	G7351 Haley Acres Apartments	G8499 Mount Morris Church Of The
533 Ware Jack N	1 Garcia Joseph	Nazarene
534 Smith Jack R 789-3748	2 Cragg Steve 686-6816	G8521 Brown Joseph P @ 686-6143
535 Norling Allen W 785-7662	3 Mapes Carl B	G8537 Ron's Washer & Dryer Repair
	4 Aaron James R	Service 686-3360
537 Irvin Paul	5 Vacant	Kremski Ronald G @ 686-3360
G6149 Pease Joseph	6 Edgecomb Arthr R	FRANCES RD INTERSECTS
G6190 Moore Wiley A @ 789-8333	7 Perry Leon E Jr	THATTOES IN HTTEROSOTE
G6203 Vacant	8 Vacant	120
G6350 Vacant	9 Bindschatel Jerry W	DORT HWY SOUTH (BURTON &
G6368 Arminda's Nursing Home 686-6740	10 Rundell Robt M	
G6369 Northwoods Trailer Sales 686-4330	G7352 Hopps Geo Cycle Sales 686-0700	GRAND BLANC TWPS)—FROM E ATHERTON RD SOUTH BEYOND
G6406 Vacant	G7352½ Vacant	
G6409 Lee Theo W @ 686-4900	G7359 Massey Glenn A @ 686-8073	GIBSON (FLINT PO)
Tip-O-Le Doggie Motel 686-4900	G7365 Kerrison Manufacturing auto &	and declarate to the
G6439 Genesee Raceway	truck water pumps 686-3740	ZIP CODE 48507
G6442 White Swan Motel 686-3680	Kerrison Wm L ⊚	G3009 Ivanhoe Farms Food Market
Cain Augusta M Mrs @		PI2-2356
G6451 Brown Lee © 686-6106	G7372 Vacant G7377 Zahm's Hardware & Sporting Goods	G3029 Sav Mor Inc No 7 743-7690
G6455 Farrel Lester	686-4730	G3033 Dahl Webster E acct P12-0560
G6463 Reno Dale E @ 686-4188		G3071 Latreille Cleaners No 7 743-3390
G6465 Golnbiewski Adolph © 686-4852	G7383 Zahm Earl G @ 686-4730	G3085 Embers The tavern 742-4773
	G7389 Bell Lester © 686-2284	LETA AV INTERSECTS
G6470 Sandis Charles	G7397 Bell's Appliance Store 686-2284	G3111 Earl's Travel Trailers 742-7230
G6476 Tucker Charles A @ 686-8398	G7406 C W A Manufacturing Inc mach	G3147 Eileen's Motor Inn restr P12-9867
G6485 Goins Elmer @ 686-5467	tools 686-3030	G3149 South Dort Frame & Collision (Stge
G6500 Rhodes Albert H @ 686-4088	G7407 Vacant	G3165 Trevi Pizzeria 743-3550
G6526 Caverly Martin E 686-7479	G7409 Northland Party Shop beer 686-3550	DELL AV INTERSECTS
G6531 Kingsley Dorris E Mrs @ 686-3958	G7411 Banks Arnold E 686-7794	G3205 Vacant
	G7425 Personal Realty Co 686-6850	G3205 Vacant G3211 Gillie Ruby Mrs antiques 742-0461
102	G7430 Vacant	
STANLEY RD INTERSECTS	G7435 Groshon Farm Supplies agrl impl	G3219 No Return
G7024 Labor International Of North	686-6870	G3223 Kuntz Tool & Die Inc mfrs PI2-6070
America 1075 A F Of L 686-8381	G7448 Vacant	G3231 Richvalsky Realty & Insurance
G7025 Precision Machine Shop & Auto	G7454 Vacant	743-0600
Parts 686-9000	G7454% Vacant	G3235 Richvalsky's Lounge tavern 742-9895
G7031 North Dort Automatic Transmission	G7462 Clawson Thos F @ 686-2665	G3239 Vacant
Service 686-2550	Clawson Marian M Mrs	G3255 Vacant
G7040 Vacant	G7463 Sadler Thos M	E HEMPHILL RD INTERSECTS
	G7472 Hutchison Wm L @ 686-3742	G3266 Palace Gardens tavern 743-6420
	CHAIL THUCHISON WILL IS COOKING	G3269 Bargain Branch used cars 743-6270
G7046 Vacant	C7477 Risaha Anna Mrs	G3209 Bargain Branch used cars 140-04-10
G7046 Vacant G7049 Clement Charles W Rear Vacant	G7477 Bisaha Anna Mrs G7491 M M R Cocktail Lounge 686-8952	G3281 Crank's Motel 743-5173

5779007.4 Page: A84

<u>Target Street</u> <u>Cross Street</u>

# Source POLK DIRECTORY CO

### E CARPENTER RD 1965

CARPENTER RD E (G TWP) -- CONTD G1133 APARTMENTS A FARLEY NAMON B NC RETURN C CAVER WILLIE D SMALL AL STREET CONTINUED G1139 NC RETURN G1141 WOODBURY ISAIAH G1145 APARTMENTS A NO RETURN B VACANT C VACANT D VACANT STREET CONTINUED G1157 BOWEN VASHTIE MRS . G1163 HOLLAND INELL MRS G1167 HOLMES JAMES H . G1171 SAYLOR FRANK H . SU9-8402 G1177 WHITE AARON G1183 MARSH ELLEN M MRS . G1187 VACANT G1193 STYLE & FASHION BEAUTY SALON 787-3980 IRVIN'S BARBER SHOP G1197 HOWELL STELLA 785-6933 G1203 SUFFEL RUTH M MRS . G1207 BROOKS JOHN W JR SU7-0447 G1213 CLARK WILLIE A G1217 VACANT --- ALFRED INTERSECTS G1231 R & A MARKET GROS SU9-0422 REDMOND ROBT G1233 MINGO BAR TAVERN G1255 DARR'S LAUNDROMAT SU9-9027 G1257 VACANT G1267 BORG FRED . G1277 STRAND ANITA G1283 PAYNE BERNITTA A MRS . G1289 CHERRY JOHN . SU7-5989 G1303 FORREST JAMES S . SU9-0753 G1313 VACANT G1327 BRYLINSKI MARY A MRS . SU5-9129 ---HARRY BEGINS G1349 GREEN JOE E . SU7-2714 G1353 SKAGGS PINK G1369 THOMPSON ROBT K • SU5-7274 G1379 JAMES FRED D @ G1383 KUTCHER MICHL . G1399 PERAKOVIC ANTHONY P . SU9-0927 G1423 LARRY'S REFRIGERATION & AIR CONDITIONING SERVICE SU5-9847 LAWRENCE LACEL L D SU5-9847 G1433 VACANT G1459 PARKER'S PHILGAS CO (BULK PLANT) --- C & O RY CROSSES --- DORT HWY INTERSECTS

## E FRANCES RD 1965

102 FRANCES RD EAST (GENESEE TWP)-FROM G8518 N SAGINAW EAST TO N DORT HWY (MT MORRIS PO) G1020 DIMINOFF TRUCKING CO NI9-5211 DIMINOFF BORIS • NI9-5211 G1037 BOTT VALENTINE J . NI3-4450 G1046 MC GRIFF ELMER J . N13-5754 G1053 MASON GRACE M MRS . NI3-6052 G1061 COHA ANN M MRS • 643-6057 G1062 IRVING LED F • 643-4462 G1080 SAUTTER EARL J . 643-7713 G1105 DAVIS CLAUDE E . NI3-5089 G1138 DAVENPORT CLIFFORD C . NI3-5258 G1142 MARVIN JEROME F • 643-7577 G1144 GRIFFIN WM D • NI3-5551 G1146 KULIS EDW J . NI9-8308 G1148 GOODE FLOYD M • 643-7392 G1153 WITTUM HOWARD • NI3-6366 G1154 STABLEFORD JAMES D . 643-7510 G1159 CLAMPITT FLORENCE E MRS . NI3-5080 G1160 KOVACS JULIUS J . G1168 STADLER LEO L . NI3-5542 G1176 SATKOWIAK LEON J . NI9-6941 G1181 STEVENS LULA D MRS G1193 LA VENE LEON F • NI3-4537 G1207 LA VENE JAMES L . NI 3-4388 G1217 GILLARD TERRANCE M G1223 RENO LENUS B • G1225 CROSSETT CHARLES A . G1233 CLEMENT MICHL C . NI3-5491 G1241 SWINSHART PAUL A . G1263 LEECK LYLE N NI3-4308 ---N DORT HWY INTERSECTS

### E STANLEY RD 1965

# STANLEY RD E (G TWP) -- CONTD G1027 HOWARD MAXWELL G . NI3-5815 G1033 HILL GEO S REV NI3-5741 G1037 VACANT --- UNION BEGINS G1047 GOSSELIN NED E . NI3-4404 G1097 BENTLEY PAUL C . NI3-5054 G1131 BLACK JAMES W . NI9-9861 G1139 BLANDFORD HARRY W . 643-4862 G1147 ESMOND HAROLD A . NI9-1171 G1155 KEEPORT BERTHA A MRS . NI3-6861 G1191 DIMITROFF STANLEY A . G12Q7 KENWORTHY MARY MRS . NI3-5653 G1278 THRASH DEWAYNE H . NI3-5663 G1289 GIBSON WAYNE J . NI3-4364 G1290 ANDREWS LERDY E . NI9-8242 G1292 VACANT G1297 EHRHART FRED 0 ● NI9-4331 G1299 LINDSEY CHARLES G1302 SMITH CECIL J . NI9-3771 G1320 VACANT G1376 PARKER WARREN E G1439 LANGDON HORACE K . NI3-5132 --- LEWIS RD INTERSECTS G2013 WALKER CHARLES E ● 643-7745 G2021 WALKER CHARLES D . NI3-5991 --- N DORT HWY INTERSECTS

DORT HWY N (G TWP) -- CONTD G5300 KURTZ GRAVEL CO SU7-6543 G5320 VACANT G5339 DIXIE AUTO PARTS SU7-8711 G5340 MOBIL OIL CO IBULK PLANT AND TERMINAL) SU9-9194 G5355 MILLER WM M G5357 NICHOLS CLARISE MRS FORGREEN MILTON F G5371 VACANT G5375 VACANT G5388 BUCKEYE PIPE LINE CO THE SU9-9279 G5395 DE LAURIER GRACE MRS G5403 COGGINS JEROME B . SU9-6340 G5420 CAMP'S BILL AUTO REPAIR 787-5771 G5421 BADOUR CLARENCE . SU7-9670 G5426 VACANT G5432 VACANT G5439 MC GINTY CHARLES J . SU9-0173 G5449 BAILEY GERALD H 785-7667 G5452 FLINT MOTEL SU9-9066 G5454 EHRNST FRANK • SU9-9066 G5455 ANGERS WALTER J . SU9-0212 G5468 SCHAAF CONSTRUCTION CO GENL CONTRS SU9-2071 G5469 STABLES THE TAVERN 789-2241 G5492 VACANT G5512 VACANT G5522 SCHAAF PRE CAST CONCRETE CO 785-7671 G5523 HOGAN ELWOOD T GRO . 789-0647 104 --- COLDWATER RD INTERSECTS ---MT MORRIS PO G6065 MARATHON DIL CO (BR) SU5-0841 G6136 GUNTHER TRAILER COURT INC SU9-3771 GUNTHER RICHD L SU9-3771 GUNTHER C FREDK JR MORROW HARRY TRUCKING SU9-8353 G6149 VACANT G6190 MOORE WILEY A . SU9-8031 G6203 FLINT BLOCK CO SU9-8031 G6345 WOODRUFF MOVING & WRECKING CO 643-7381 G6350 VACANT G6368 ARMINDA'S NURSING HOME NI9-4431 ODOM ARMINDA MRS . G6369 NORTHWOODS TRAILER SALES 643-4721 G6406 FOSTER EDW W . NI3-5189 G6409 LEE THEO W . NI9-1751 TIP-O-HE DOGGIE MOTEL NI9-1751 G6439 PARTY HOUSE THE HALL G6442 WHITE SWAN MOTEL NI3-5762 CAIN AUGUSTA M MRS . NI3-5762 G6451 BUKOSKY JOSEPH R . NI3-6592 G6455 COCKER WAYNE

G6463 NEWMAN WAYNE D . NI3-4913 G6465 GOLNBIEWSKI ADOLPH . NI3-6591 G6470 NO RETURN G6476 TUCKER CHARLES A . G6485 FISHER JOHN . NI3-6597 G6500 RHODES ALBERT H . NI3-5167 G6526 RHODES ELMER S . SU9-6562 G6531 KINGSLEY GUY C . N13-5065 102 --- STANLEY RD INTERSECTS G7025 NORTH DORT AUTOMATIC TRANSMISSION SERVICE AUTO REPR NI3-4351 G7040 DUNN GLEN R • NI3-4269 G7046 ANDERSON HARRY E . NI3-4289 G7049 VACANT REAR LANGDON LAWRENCE A BLDG CONTR . NI3-4324 G7073 VOSTRY ROBT W . NI3-5385 G7073% BOB'S BARBER SHOP G7085 LA FRENIERE RENE P . NI3-5591 G7092 DIMENT JAMES F . N13-5153 G7112 MORGAN MAX W . NI3-5544 G7113 CUMMINGS LEO A AGENCY INS NI9-2611 CUMMINGS LEO A . NI9-2611 G7118 MORGAN DONALD B N19-0061 G7127 VACANT G7134 MILLIE'S MOTEL NI3-5211 TAYLOR ERNEST . NI3-5211 G7141 ROSEVEAR CHARLES . 649-8161 G7153 SHANAFELT JOHN C . G7154 NORTHLAND BAR TAVERN NI9-9141 G7159 DUFFING PERCY J . N13-5597 G7181 VACANT G7191 R-CLAN MOTEL N13-5635 ROTHGEB FORREST R . NI3-5635 G7192 NORTHLAND DRIVE IN THEATRE NI3-5407 LOOMIS REATHA G MRS . N13-5955 G7200 GUYER ORVILLE A . NI3-5154 G7210 VACANT G7220 KEEN FRED G JR . NI3-5433 G7223 HUGHES JOHN A G7243 VAN ALST ROGER D . N19-4471 G7246 TAFT JESSE A . N19-0672 G7260 WILSON LILY MRS . G7269 CRAIG PAUL B . NI9-4311 G7281 VACANT G7293 KUHLE ANTHONY L NI3-5794 G7307 SMITH CHARLES • NI3-4988 G7314 VACANT G7315 HORTON BOBBY R G7351 HALEY ACRES APARTMENTS 1-6 VACANT 7 KEELER ROY NI3-4550 8 GRAY SOPHIA MRS 9 HILTZ HAROLD E 10 VACANT G7352 VACANT G7359 MASSEY GLENN A G7365 KERRISON MANUFACTURING AUTO PUMP REPR NI3-5841

Target Street

POLK DIRECTORY CO

## N DORT HWY 1965

DORT HWY N (G TWP)-CONTD KERRISON WM L . NI3-5841 G7372 HAGADORN LAURA L MRS . G7377 ZAHM'S HARDWARE & SPORTING GOODS N19-0911 G7383 ZAHM EARL G . NI9-0911 G7389 BELL LESTER . NI3-4126 G7397 BELL'S APPLIANCE STORE NI3-4126 G7406 C W A MANUFACTURING CO MACHS NI9-2711 G7407 PERO LAREN R G7409 ZIP & VE GRO NI3-5561 G7411 PERO DANL I G7425 VACANT G7430 STUB & JEAN'S AUTO ACCESSORIES NI3-5231 PASSARD RALPH R . NI3-5231 G7435 GROSHON FARM SUPPLIES AGRL IMPLEMENT NI9-5072 G7448 VACANT G7454 VACANT G7454 VACANT G7462 CLAWSON THOS F . NI3-4412 G7463 VACANT G7472 HUTCHINSON WM L . NI3-5217 G7477 YOUNG RAYMOND J G7491 AL'S BAR TAVERN NI9-9031 G7494 DEHNER PAUL D . NI9-0382 G7502 MAULDIN THOS H . NI9-0381 G7512 VACANT G7515 BLUE RIBBON BEEF 643-7111 G7525 VIC'S STANDARD SERVICE GAS STA N19-9131 --- E MT MORRIS RD INTERSECTS G8005 FLOYD'S MOBILE SERV GAS STA 649-9391 GBO10 NORTHGATE SERVICE GAS STA 649-9341 G8020 DAMRON FRANK G8043 WEDDLE JACK E . G8078 PLACE THE TAVERN NI9-9081 GB081 MAJOR DARWIN R 643-7326 GBOB7 CORLEW MARVIN G8119 CLARK STANLEY R . NI9-8381 G8158 KINDRICK FRED G8172 DE LONG HERBERT J . 649-8386 G8184 STEEL JAMES A . 643-4284 G8196 CARRIER ARNOLD . NI9-8387 G8203 HOWLAND DICK G8223 HOWLAND WM W . N19-7131 G8238 HEIDEBREICHT WM D . NI3-3861 G8289 VACANT --- LEWIS RD INTERSECTS G8313 CROMWELL DAVID F G8329 HOSACK HAROLD H . NI9-3801 G8347 TUCKER BESSIE M MRS . NI9-1837 G8373 SHUCK MAX . N19-3681 G8375 CULINSKI LUDWIG A . NI3-5414 G8405 KINCADE HORACE L . NI9-1832 G8439 HARCEK LEWIS J . N19-1831 G8457 DAHL CLIFFORD E . NI3-3582 G8460 SKATELAND ROLLER RINK G8460% MC COMBS WILLARD

<u>Source</u>

POLK DIRECTORY CO

N DORT HWY 1965

G8499 MCUNT MORRIS CHURCH OF THE NAZARENE
G8521 BROWN JOSEPH P • 643-7265
G8537 HUNT PAUL J •
---FRANCES RD INTERSECTS

## E CARPENTER RD 1960

G-1267 Borg Fred @ G-1277 Vacant G-1283∆Harger Jos W ⊚ G-1289∆Cherry John ⊚ G-1303∆Forrest Jas S ⊚ G-1313 Vacant G-1317 Vacant G-1327∆Brylinski Mary A Mrs @ Harry begins G-1340 Green Joe E ⊚ G-1353 Skaggs Gillie M Mrs @ G-1369 Vacant G-1379 Vacant G-1383 Kutcher Michl @ △Johnson Frank G-1399 A Perakovic Anthony T @ G-1423 Dukes T V G-1433∆Day Lee G G-1459 Parker's Philgas Co (bulk plant) C&ORy crosses Dort hwy intersects

## E FRANCES RD 1960

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# FRANCES ROAD E (Genesee Twp)—From G-8518 N Saginaw east to N Dort hwy

- G-1020 Diminoff Boris ©
- G-1037△Bott Valentine J ⊚
- G-1046 AMcGriff Elmer J
- G-1053∆Mason Glenn T ◎
- G-10614Coha Tom ⊚
- G-1062∆Irving Leo F ⊚
- G-1080 \Saulter Earl J ⊚
- G-11054Davis Claude E ◎
- G-11384Davenport Clifford E ⊚
- G-11424Marvin Jack D ◎
- G-1144↓Griffin Wm D ◎
- G-1146 AKulis Edw J ◎
- G-1148∆Revoir Clarence V ⊚
- G-1153↓Wittum Howard ◎
- G-1154 AFrenya Chester ⊙
- G-1159∆Clampitt Florence E Mrs ©
- G-1160∆Kovacs Julius ⊚
- G-1168∆Stadler Leo R ◎
- G-1176 \Satkowiak Leon J
- G-1181 A Jefferson Donald J
- G-1193∆LaVene Leon F ©
- G-12074LaVene Jas L ◎
- G-1223 AReno Lenus B ◎
- G-1225△Crossett Chas A ⊚
- G-1233 Clement Michl C
- G-1241 \( \Delta \) Swinehart Paul A
- G-1263 Vacant

N Dort hwy intersects

Source POLK DIRECTORY CO

E STANLEY RD

1960

104 STANLEY ROAD E (Genesee Twp)-From N Saginaw east to N Dort hwy G-10274Howard Maxwell G G-10334Hill Geo S Rev G-1037 Havens Julia A Mrs Union begins G-10474Gosselin Ned E ◎ G-10974Smith Clarence R G-11314Black Jas W ◎ G-11394Blandford Harry W @ G-11474Esmond Harold A G-1155 △ Keeport Aaron B G-12074 Kenworthy Mary

Mrs @

# E STANLEY RD 1960

G-12784 Thrash Duwayne
H G-12894Gibson Wayne J©
G-12904 Andrews Leroy E
G-1292△Wright Jack D tire
repr G-12974Ehrhart Fred O⊚
G-1299 Vacant
G-13024Smith Cecil J⊚ G-13204Ehrhart Lavern ⊚
G-1376 Parker Warren E
G-1939 A Craddock Lovell L Lewis rd inter-
sects
G-2013 △ Johnson Roy C ⊚ G-2021 △ Walker Chas D ⊚
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POLK DIRECTORY CO

Contd G-5182\Delta Turner & McLean Sup Co whol bldg matl G-5191 Vacant G-5201 Ware Australia G-5220\Delta L&W Auto Repair \times Franklin Jasper L auto body repr G-5273\Delta Reno Auto Parts G-5278\Delta Cavalier Gas & Oil Co gas sta (br) G-5300\Delta Kurtz Gravel Co Inc	
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tersects	
G-6135∆Culhane Mary Mrs	The state of the s

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G-6136 AGunther Trailer
        Court Inc
      AGunther Richd L
      AMorrow Harry
        trucking
G-6190∆Moore Wiley A ⊚
G-6203 AFlint Block Co
G-6345∆Woodruff Moving
         & Wrecking junk
G-6350∆Olsey Auto Sls
        auto parts
G-63684Elizabeth's Mtr
        Court
       ATodd M Eliz ◎
G-6406∆Foster Edw W ⊚
G-64094Lee Theo W ◎
G-6439 Vacant
G-6442 AWhite Swan Motel
       ACain Augusta M ⊚
G-6451∆Bukosky Jos R ⊚
G-6455↓Ferrell Lester ⊚
G-6463 AHorton Ralph ⊚
G-6465AGolnbiewski Adol-
        ph @ bldg contr
G-6470∆Cain Walter ⊚
         carp
G-6476 ∆Tucker Chas ⊚
G-64854Fisher John ◎
G-6500∆Rhodes Albert H ©
G-6526 ARhodes Elmer S ⊚
G-6531 ∆Kingsley Guy C ⊚
                       102
       Stanley rd inter-
          sects
G-7025∆North Dort Auto-
         matic Transmis-
         sion Serv auto
         repr
G-7040 ADunn Glen R ⊚
G-7046 AAnderson Harry E
G-7049∆Langdon Lawrence

    bldg contr
    Claud's Mkt fish

G-7073 Vacant Store
       Duquette Jas L
G-7092 △Diment Jas F ◎
G-7112∆Morgan Max W ⊚
G-7113 & Cummings Leo A
         Agcy ins
       ACummings Leo A
G-71184Morgan Donald B
G-7127∆Heron Fred M ⊚
G-7134∆Millie's Motel
       ATaylor Ernest ⊚
G-7141 AHammer Chas M
G-7153 ASchultz Lois M
         Mrs
G-7154∆Dubui's Log Cabir
         restr
       ADubuc John G ⊚
G-7159∆Duffing Percy J ©
G-7181 Lashbrook Orville
G-7191AR-Clan Motel
       ∆Rothgeb Forrest
         R @
       Horton Bobby R
       ALipp Harold D
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00	
1	G-71924Northland Drive-
ı	In Theatre
ı	ΔLoomis Peter W © G-7200ΔGuyer Orville A ⊚
١	G-7210 Under Constn
١	G-7220∆Keen Fred G ⊚
1	G-7223 Vacant G-7243 4VanAlst Roger D
	G-7246 ATaft Jesse A ⊚
1	G-7260 Vacant
ı	G-7269∆Craig Paul B ⊚ G-7281∆Northwoods Trail-
1	er SIs
	G-7293 Vacant
	G-7307∆Wilbert Lloyd G ⊚ G-7314 Holland Blas
	G-7315∆Groff Thos E ©
١	used trailers G-7351 Vacant
1	
	G-7359∆Babcock Robt W G-7365∆Kerrison Mfg auto
1	pump repr
ı	AKerrison Wm L ⊚
	G-7366 Hagadorn Laura Mrs ©
	G-7377\Delta Zahm's Hdw &
	Sporting Goods G-7383 AZahm Earl G ⊚
1	G-7389∆Bell Lester ⊚
j	G-7397∆Bell's Appliance
	Store G-7406 ACWA Mfg Co
	machs
Ì	G-7407 Vanier Zephier G-74094Zip & Ve gros
į	G-7411 AVanier Zephine F
l	©
Ì	G-7425∆Bastedo Walter C ⊚
Y	G-7430∆Stub & Jean's auto
	accessories ΔPassard Ralph R ⊚
Ì	G-7435△Groshon Farm S
ı	Supplies agrl
	G-7448 Brown Nellie Mrs
	⊚
	G-7454 Miley Geraldine E Mrs
	G-7454 Muringer Larry
	P G-7462 4Clawson Thos F ⊚
	G-7463 Grimes Harry
	G-7472 AHutchison Wm L
9	G-7477∆Young Raymond J ⊚
	G-7491 AAl's Bar beer gar-
1	den
1	G-7494∆Dehner Paul D ⊚ G-7502∆Mauldin Thos H ⊚
	G-7512 AGeorge's Produce
	Mkt G-7515 Vacant
	G-7517 Vacant
	G-75254Vic's Standard Serv gas sta
	E Mt Morris rd
	intersects

**Target Street** 

#### N DORT HWY 1960

DORT HWY N (G Twp)-Contd G-8005 AFerrell's Serv gas sta G-8010 ΔStub & Jean's gas sta G-8020 AEggers John H G-8043 AWilkins Robt E ⊚ G-8078 A Place The beer garden G-8081 AMcClain Elwood E G-8087 Zacek Henry J G-81194Clark Stanley R ⊙ G-8158 Morse Luther J G-8172 Carsten Alvah D G-8184 Steel Jas A @ G-8196 ACarrier Arnold ⊙ Dolan Chas W G-8203 Vacant G-8223 A Howland Pure Oil Serv gas sta A Howland Wm W ⊚ G-82384 Heidebreicht Wm H @ Lewis rd intersects G-8313 LaBo Claude F G-8329 A Hosack Harold H @ G-8347 \Darker Bessie M Mrs @ G-8373 △Shuck Max ⊙ G-8375 ACulinski Ludwig A G-8405∆Kincade Horace L 0 G-8439∆Harcek Lewis J ⊚ G-8456 Under Constn G-8457 ADahl Clifford E ◎ G-8499 MtMorris Ch of the Nazarene G-8521 \( \text{Litwicki Raymond} \) G-8537 AHunt Paul J @ Frances rd intersects

Cross Street

Source
POLK DIRECTORY CO

#### E CARPENTER RD 1957

CARPENTER RD E (Genesee Twp) - From G-5000 N Saginaw east to Dort hwy G-1015 ANorth Side Cab Co G-1021 ACanfield Ellsworth @ real est G-1031 AFrank's Trailer Rental AFrank Geo A G-1037 AMott Trailer Rental AMott Gordon C G-1053AEller Otis V G-1055 \ Evans Leila R Mrs G-1059∆Rankins Jas E ⊚ G-1067∆Jas John A ⊚ G-1073 Aylsworth Robt E G-1085 Anderson Don D Jones Dennis E G-1087 AFlint Metal Products steel fabricators George begins G-1105 A Williams Henry @ G-1119 AMcDonald Pearl Mrs @ Welch Azel G-1157∆Bowen Vernal ⊚ G-1163∆Osborne Clarence G-1167∆Holmes Jas H ⊚ G-1171 ASaylor Frank H @ G-1177 Jewett Robt R G-1183 AMarsh Linus W ⊚ G-1187 Ginger Wm @

#### E CARPENTER RD 1957

G-1193 Ferguson Clyde W G-11974Cook Frank W @ Alfred intersects G-1203∆Arrand Elwyn V ⊚ G-1207 Vacant G-1213∆Saylor Richd J ⊚ G-1217 Cuty Geo G-1231 AR&A Mkt gro ASilver Philip S @ G-1233∆Mingo Bar beer gdn G-1257∆Grai Anthony W ⊚ G-1267 Borg Fred G-1277 Kibby Thos C G-1283∆Harger Jos W ⊚ G-1289 Cherry John @ G-1303∆Forrest Jas S ⊚ G-1313 Brelinski Edw H G-1317 Mark Gladys M Mrs Williams Virginia A Mrs G-1327∆Brylenski Mike ⊚ G-1349∆Hubbartt Everett ⊚ Harry begins G-1353 Skaggs Gillie M Mrs @ G-1369 \Deauheu Wm @ G-1379 \Deaulieu Clement W @ G-1393 Kutcher Michl @ G-1399 APerakovic Anthony To G-1423 ∆Buys Minnie M Mrs G-1433 Vacant Parker Appliance Co (bulk plant) C&ORy crosses Dort hwy intersects

Source
POLK DIRECTORY CO

E FRANCES RD

1957

# FRANCES ROAD E (Genesee Twp) - From G-8518 N Saginaw east to Lewis rd G-1020 A Diminoff Boris @ G-1037 △Trim Edw M © G-1046 AMcGriff Elmer J G-1053 A Mason Glenn T @ G-1061∆Coha Tom ⊚ G-1062 \( \Delta \) Schieber Wayne E (b) G-1080 A Saulter Earl J @

#### E FRANCES RD 1957

FRANCES RD E (G Twp)-Contd G-1105 ADavis C E ⊚ G-1138 △ Davenport Clifford E @ G-11424 Humphrey Calvin J @ bldg contr G-1144 & Griffin Wm D @ G-1146 AKulis Edw J @ G-1148∆Revoir Clarence VO G-1153 \ Wittum Howard @ G-1154∆Frenya Chester ⊚ G-1159AClampitt Florence E Mrs @ G-1160 A Kovacs Julius @ G-1168∆Stadler Leo R ⊚ G-1176 Satkowiak Leon J G-1181 A Jefferson Donald J G-1193 La Vene Leon F @ N Dort hwy intersects G-1207 A La Vene Jas L @ G-1223 AReno Lenus B @ G-1225 A Crossett Chas A @ G-1233 Hurlburt Wybert A G-1241 A Swinehart Paul A @ G-1263 A Parish C Earl @ Lewis rd intersects

Source
POLK DIRECTORY CO

**E STANLEY RD** 

1957

# STANLEY ROAD E (Genesee Twp)-From N Saginaw east to N Dort hwy G-1027 △ Howard M G ◎ G-1033∆Hill Geo S Rev G-1037 Havens Julia A Mrs Union begins G-1047 \Simmons Burt @ G-1097 ASmith Clarence R G-1131∆Block Jas W ⊚ G-1139 A Blandford Harry W G-1147 Esmond Harold A G-1155∆Keeport Aaron B G-1191 Dimitroff Anna Mrs @ G-1207 AKenworthy Clarence @

<u>Target Street</u> <u>Cro</u>

**Cross Street** 

Source
POLK DIRECTORY CO

#### N DORT HWY 1957

DORT HWY N (G Twp) Contd G-5395 Taylor Emory G-5400 Downer Belle E Mrs @ ALamire Laddie T G-5403 △Coggins Jerome BO G-5406 Swafford Claude G-5420 ADort Collision G-5421 ABadour Clarence @ G-5426 A Walt's Collision Serv G-5432 ASchonert Edmund G-5439 A McGinty Chas J @ G-5449 Bailey Gerald H G-5452 △Flint Motel G-5454 AErnst Frank G-5455Angers Walter J @ G-5468 ASchaaf Constn Co bldg contrs G-5469 Under Constn G-5522 ASchaaf Concrete Co G-5523 A Hogan Gro AHogan Elwood T ⊚ Coldwater rd intersects G-6135 No Return G-6136 & Gunther Trailer Court AGunther Richd G-61904 Moore Wiley A @ G-6203 AFlint Block Co G-6345 Hall Paul G-6350∆Olsey Auto Sls auto parts G-6351 Vacant G-6368 A Elizabeth's Mtr Court G-6406∆Foster Edw W ⊚ G-6409 Lee Theo W G-6439 No Return G-6442 AWhite Swan Motel ACain Augusta M @ G-6455 Vacant G-6463 Horton Ralph @ G-6465 Golombeski Adolph G-64704Cain Walter @ contr G-6476 Tucker Chas @ G-6485 Fisher John @ G-6500∆Rhodes Albert H ⊚ G-65264Rhodes Elmer S ⊚ G-6531 A Kingsley Guy C @ Stanley rd intersects

# Exhibit 5 Section 7A Compliance Analysis "Due Care Plan"



# SECTION 7A COMPLIANCE ANALYSIS

Flint Secondary Water Supply Project, Flint, Michigan

PREPARED FOR Mr. Jason Kenyon

Wade Trim

555 S. Saginaw Street, Suite 201

Flint, Michigan 48502

**PROJECT #** 14535s

DATE November 27, 2019

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### **SECTION 7A COMPLIANCE ANALYSIS**

Flint Secondary Water Supply Project, Flint, Michigan AKT Peerless Project No. 14535s-3-27

#### 1.0 Introduction

Wade Trim (client) retained AKT Peerless to prepare this Section 7a Compliance Analysis for the properties located within the proposed Flint Secondary Water Supply Project, Flint, Genesee County, Michigan (subject property). AKT Peerless' scope-of-services is based on its AKT Peerless' proposal PS-25334, dated October 11, 2019, and the terms and conditions of that agreement.

The City of Flint has engaged the Genesee County Drain Commissioner Division of Water and Waste Services (GCDC-WWS), and the GCDC-WWS has agreed to act as a secondary water supply through what is known as the North Water Loop. The proposed Secondary Water Supply project will therefore include the construction of approximately 6 miles of 36-inch diameter dedicated transmission main. This transmission main will connect to the GCDC-WWS's North Water Loop west of the intersection of Frances Road and Dort Highway, and will include the construction of a master meter vault adjacent to the connection point. The transmission main itself will be constructed of ductile iron pipe with the majority of the alignment located on Consumers Energy/ITC property, ultimately ending at the City's Water Treatment Plant. Wade Trim has procured engineering services for the proposed undertaking through the City of Flint.

The purpose of this Section 7a Compliance Analysis is to document intentions for implementing compliance with their due care obligations during their future redevelopment of the subject property. If, in the future, the use of the property changes, this Section 7a Compliance Analysis must be reevaluated and revised as appropriate in consideration of these changes.

The report has been prepared in accordance with Section 20107a of the Natural Resources and Environmental Protection Act (NREPA), Public Act (PA) 451 of 1994, as amended. To demonstrate compliance with Section 20107a(1), exacerbation, due-care, and reasonable precautions have been considered and evaluated in this Section 7a Compliance Analysis. Pursuant to Section 20107a(1) and with respect to hazardous substances at the subject property, these considerations are as follows:

- Undertake measures as are necessary to prevent exacerbation of existing contamination;
- Exercise due care by undertaking response activities necessary to mitigate unacceptable
  exposure to hazardous substances and allow for the intended use of the facility in a manner that
  protects the public health and safety;
- Take reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions;
- Provide notifications to the Michigan Department of Environment, Great Lakes, & Energy (EGLE)
  and others in regard to mitigating fire and explosions hazards, discarded or abandoned
  containers, contamination migrating beyond property boundaries, as applicable;
- Comply with any land use or resource use restrictions established or relied on in connection with the response activities at the facility; and
- Not impede the effectiveness or integrity of any land use or resource restriction employed at the facility in connection with response activities.



#### 2.0 Property Information

General property information is presented in the following subsections.

#### 2.1 Property Location

The subject property consists of 16 contiguous parcels of land, beginning at the City of Flint's Water Plant (City of Flint) and ending at Frances Road (Genesee Township). For ease of reference, AKT Peerless has designated an identification letter correlating to specific sections of the subject property area. Section A consists of land beginning from the water plant to Carpenter Road, Section B consists of land from Carpenter Road to East Coldwater Road, Section C consists of land from East Coldwater Road to East Stanley Road, and Section D consists of land from East Stanley Road to East Frances Road.

The 16 contiguous parcels Identification Numbers are 47-32-152-001, 47-32-127-001, 47-32-126-005, 47-29-377-006, 47-29-376-008, 47-29-302-016, 47-29-102-029, 11-20-300-020, 11-20-501-030, 11-20-502-021, 11-20-502-012, 11-18-400-003, 11-18-200-007, 11-07-400-013, 11-06-200-007, and 11-06-200-019.

Refer to Figure 1 for a Topographic Location Map.

#### 2.2 Spatial Data

The subject property is located in the Sections 29 and 32 in the City of Flint (T.08N. /R.07E.), and Sections 6, 7, 18, 19, and 20 within Genesee Township (T.08N. /R.07E.), Genesee County, Michigan as observed on the USGS Topographic Map which encompasses the subject property.

The coordinates of the subject property based on map interpolation are as follows:

Latitude (North): 43.057748 to 43.134636 Longitude (West): -83.669327 to -83.683930

Refer to Figure 1 for a Topographic Location Map.

#### 3.0 Detailed Characteristics of Property Use

#### 3.1 Current and Proposed Use of the Property

The subject property primarily consists of vacant land covered with grassy and wooded vegetation, and overhead power lines. Furthermore, the subject property crosses West Boulevard Drive, CSX Transportation Railroad, Groveland Avenue, East Webster Road, Carpenter Road, Schaaf Drive, North Dort Highway, Lewis Road, East Coldwater Road, East Stanley Road, East Mt. Morris Road, and East Frances Road. Proposed use of the subject property will be exclusively for non-residential purposes.

The subject property is currently owned and/or occupied by Consumers Power Company, Genesee Power Station LTD, and, Consumers Energy Company.

#### 3.2 Existing Infrastructure Features

The subject property is currently structurally vacant with no improvements with the exception of overhead power lines, railway crossings, and roadway crossings.



The subject property will not be connected to electric, public natural gas, public sewer, or storm sewer system; however, public water service is proposed to the subject property through an underground water line.

#### 3.3 Proposed Construction Activities

Wade Trim intends to engineer/design the proposed secondary water supply along a 6-mile stretch adjacent to Dort Highway from the City of Flint's Water Treatment Plant to Frances Road of a 36-inch diameter transmission main. The subject property will have construction of a master meter vault adjacent to the connection point. The transmission main will be constructed of ductile iron pipe. The maximum depth of excavation activities is expected not to exceed 9 feet below ground surface.

#### 4.0 Hazardous Substance Information

The following subsections provide a summary of previous environmental investigations, areas of known contamination, an evaluation of exposure pathways, and an evaluation of immediate dangers at the subject property.

#### 4.1 Summary of Previous Subsurface Investigations

#### 4.1.1 AKT Peerless January 2015 Corridor Study

On October 8, 2019, AKT Peerless conducted a Corridor Study for the subject property on behalf of Wade Trim. The purpose of this task was to determine sites of potential environmental concern within the area of the proposed secondary water supply line.

At the time of AKT Peerless' Corridor Study, the subject property was primarily vacant land covered with grassy and wooded vegetation, and overhead power lines and was occupied by Consumers Power Company, Genesee Power Station LTD, and, Consumers Energy Company. The Corridor Study identified several sites of potential environmental concerns associated with the subject property which included both on-site and off-site environmental concerns.

For ease of reference, AKT Peerless has designated an identification letter correlating to specific sections of the subject property area. Section A consists of land beginning from the water plant to Carpenter Road, Section B consists of land from Carpenter Road to East Coldwater Road, Section C consists of land from East Coldwater Road to East Stanley Road, and Section D consists of land from East Stanley Road to East Frances Road. A Map Key# was assigned for sites of potential environmental concerns.

The on-site potential environmental concerns identified are 1) a railroad track traverse the subject property, north of the water plant on Section A (Map Key# 19), 2) potential landfilling on the subject property, north of the water plant and east of the existing railroad tracks on Section A (Map Key# 20), 3) potential landfilling on the subject property, south of Webster Road and west of the existing trailer park on Section A (Map Key# 21), 4) a former salvage yard, industrial storage yard, and potential landfilling on the subject property, south of Coldwater Road on Section B (Map Key# 22), and 5) a railroad track traverses the subject property, south of Coldwater Road on Section B (Map Key# 23).

The off-site potential environmental concerns identified are related to eastern and western adjoining properties that currently or historically operated for industrial purposes and sites with known environmental contamination and/or releases (Map Key# 1 through 17).



Based on the presence of potential environmental concerns identified in the Corridor Study, AKT Peerless concluded that the subject property would require additional investigations (i.e. subsurface investigations) would be warranted to further evaluate the environmental conditions of the subject property area, specifically to demonstrate compliance with Due Care during the proposed development. Results of the subsurface investigations would provide the Client with a better understanding of soil and groundwater characteristics in order to identify exposure pathways (i.e. volatilization to indoor air, particulate inhalation, and direct contact) and determine disposal methods of contaminant impacted soil and/or groundwater, if necessary.

#### 4.1.2 AKT Peerless November 2019 Phase II ESA

On November 5, 6, and 7, 2019, AKT Peerless completed a Phase II ESA for the subject property on behalf of Wade Trim.

To further evaluate the on-site off-site potential environmental concerns, AKT Peerless conducted a subsurface investigation of the subject property that included: (1) the advancement of 27 soil borings, (2) the installation of nine (9) temporary groundwater monitoring wells, and (3) the collection of 54 soil samples and nine (9) groundwater samples. The following samples were submitted for laboratory analyses:

- 40 soil samples for VOCs, polynuclear aromatic hydrocarbons (PNAs), and Michigan metals<sup>1</sup>;
- 13 soil samples for VOCs, PNAs, Michigan metals, and polychlorinated biphenyls (PCBs);
- One soil sample for VOCs, PNAs, and PCBs;
- Five groundwater samples for VOCs, PNAs, and Michigan metals;
- Four groundwater sample for VOCs and PNAs.

The on-site and off-site potential environmental concerns were grouped based on proximity and to the findings of the Corridor Study. The following table summarizes the environmental concern, the investigation activities performed, and the laboratory parameters used to address each environmental concern.

#### **Summary of Investigation Activity**

Map Section	Environmental Concern	Investigation Activity	Analytical Parameters
A	Map Key# 1	B-1	VOCs, PNAs, Michigan Metals
A	Map Key# 2 through 4, 19, and 20	B-2 through B-5	VOCs, PNAs, Michigan Metals, PCBs
A	Map Key# 5 and 21	B-6 through B-8	VOCs, PNAs, Michigan Metals, PCBs

SECTION 7A COMPLIANCE ANALYSIS | FLINT SECONDARY WATER SUPPLY PROJECT, FLINT, MI

<sup>&</sup>lt;sup>1</sup> Michigan metals include: arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc.



Map Section	Environmental Concern	Investigation Activity	Analytical Parameters
A	Map Key# 6 through 8	B-9 through B-11	VOCs, PNAs, Michigan Metals, PCBs
В	Map Key# 10 through 13, 22, and 23	B-12 through B-16	VOCs, PNAs, Michigan Metals
В	Map Key# 14	B-17	VOCs, PNAs, Michigan Metals
С	Map Key# 15 through 17	B-18 through B-27	VOCs, PNAs, Michigan Metals, PCBs

AKT Peerless submitted 54 soil samples for laboratory analysis of select parameters including: VOCs, PNAs, PCBs, and Michigan metals. The results of the laboratory analyses of the soil samples identified arsenic at concentrations exceeding the ELGE Groundwater Surface Water Interface Protection (GSIP) Criteria and EGLE Nonresidential Drinking Water Protection Criteria (DWP) and mercury and chromium exceeding the EGLE GSIP.

AKT Peerless submitted nine groundwater samples for laboratory analysis of select parameters including: VOCs, PNAs, and Michigan metals. The results of the laboratory analyses of the groundwater samples did not identified at concentrations exceeding the ELGE Nonresidential Cleanup Criteria.

Based on laboratory analytical results, select portions of the subject property meets the definition of a *facility*, as defined in Part 201 of the NREPA, Michigan Public Act (PA) 451, 1994, as amended.

Refer to Figures 2 and 3 for a site map depicting the sampling locations. Refer to Tables 1 and 2 for a summary of soil and groundwater analytical results. Refer to Appendix A for a copy of the laboratory analytical data report.

#### 4.2 Known Contamination Above Non-Residential Criteria

Based on the analytical results obtained during AKT Peerless' November 2019 subsurface investigation of the subject property, the following hazardous substances were detected above EGLE Non-Residential Cleanup Criteria (NRCC) in soil samples collected at the subject property:

#### **Summary of EGLE NRCC Soil Exceedances**

Parameter	Chemical Abstract Service (CAS) Number	Sample Identification with Criteria Exceedance	Part 201 Non- Residential Criteria Exceeded/Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Arsenic	7440-38-2	B-1s	GSIP / 4,600 DW / 4,600	17,000 / B-1s



Parameter	Chemical Abstract Service (CAS) Number	Sample Identification with Criteria Exceedance	Part 201 Non- Residential Criteria Exceeded/Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Mercury	Varies	B-22d B-23s	GSIP / 50	264 / B-23s
Chromium	7440-47-3	B-1s	GSIP / 3,300	18,300 / B-1s

#### Notes:

Sample identification: B-# indicates soil boring

ug/kg - micrograms per kilogram

DW - Drinking Water Protection Criteria

GSIP – Groundwater Surface Water Interface Protection Criteria

Relevant exposure pathways at the subject property are discussed in Section 4.5.

Refer to Table 1 for a list of specific contaminants detected in soil by AKT Peerless exceeding EGLE NRCC at the subject property. Refer to Figure 4 and 5 for a site map with soil results exceeding EGLE NRCC.

#### 4.3 Abandoned or Discarded Containers

AKT Peerless did not identify abandoned or discarded containers at the subject property.

#### 4.4 Hazardous Substance Concentrations, Fate, and Transport

The subject property is gently sloping to the east with adjoining properties. Based on AKT Peerless November 2019 subsurface investigation conducted at the subject property, the geology appears to consist of sand from below the topsoil underlain by sandy clay and clay to approximately 10 feet below ground surface (bgs), the maximum depth explored. The sand consists of light to dark brown and gray, ranged from fine to coarse grains with trace gravel. The sandy clay layer consists of brown, red, to gray in color, is medium to high stiff, and contains trace gravel. The clay layer contains trace gravel, is medium to high-stiff, and brown, orange, to gray in color. Groundwater was encountered during subsurface investigations at the subject property from one foot to 9.5 feet bgs, in select borings.

Based on the analytical results obtained during AKT Peerless' November 2019 subsurface investigation of the subject property, AKT Peerless identified the presence of arsenic, chromium, and mercury in soil at select portions of the subject property. Refer to Section 4.2 and Table 1 for a list of specific contaminants detected in soil above EGLE NRCC at the subject property.

Based on the nature of the contamination detected and the local geology/hydrogeology, it does not appear the contamination at the subject property is migrating; however, fate and transport studies have not been conducted with respect to the identified contamination. Based on existing data, off-site migration of contamination does not appear to be present at the subject property.

#### 4.5 Exposure Pathway Evaluation

The analysis of potential human exposure pathways is based on existing conditions of the subject property. The current and intended land use of the subject property is consistent with the non-residential use category pursuant to the EGLE's Operational Memorandum No. 1. Therefore, hazardous



substances identified on the subject property have been compared to EGLE NRCC for this exposure pathway evaluation.

#### 4.5.1 Soil Exposure

The following subsections describe the potential human soil exposure pathways and evaluate hazardous substances relative to Part 201 NRCC criteria. The following soil exposure pathways have been evaluated:

- Groundwater Venting to Surface Water Protection (GSIP),
- Drinking Water Protection (DWP),
- Soil Volatilization to Indoor Air Inhalation (SVIAI),
- Infinite Source Volatile Soil Inhalation (VSI),
- Particulate Soil Inhalation (PSI); and
- Direct Contact (DC).

#### 4.5.1.1 Groundwater Venting to Surface Water Protection

Although contaminant concentrations were detected at the subject property exceeding the EGLE GSIP Criteria, Groundwater Venting to Surface Water is not a human exposure pathway, but rather an exposure pathway based on aquatic toxicity Groundwater was encountered at the subject property and the closest surface body of water ranges from 200 feet to 0.83 miles from the subject property. Wade Trim has not taken and does not intend to take any actions that would make the GSIP pathway complete on the subject property.

#### 4.5.1.2 Drinking Water Protection

Drinking Water Protection is a relevant exposure pathway. However, contaminant concentrations were detected at the subject property exceeding the EGLE Non-Residential Drinking Water Protection Criteria. The property and surrounding area are exclusively provided with access to potable water exclusively from a municipal system. Future operations at the property do not include development of groundwater resources for the purpose of obtaining potable water. Further, no potable water supply wells are located on the subject property. Therefore, the Drinking Water Protection pathway is not complete and does not appear to present a significant exposure risk.

#### 4.5.1.3 Volatilization to Indoor Air

Soil Volatilization to Indoor Air Inhalation is a relevant exposure pathway; however, concentrations of target parameters were not detected in the soil at the subject property above the EGLE Non-Residential Soil Volatilization to Indoor Air Inhalation Cleanup Criteria.

#### 4.5.1.4 Volatilization to Ambient Air

Infinite Source Volatile Soil Inhalation is a relevant exposure pathway; however, concentrations of contaminants were not detected in soil at concentrations above EGLE Non-Residential Infinite Source Volatile Soil Inhalation Criteria. Therefore, the Infinite Source Volatile Soil Inhalation pathway is not complete and does not appear to present a significant exposure risk.

#### 4.5.1.5 Particulate Inhalation

Particulate Soil Inhalation is a relevant exposure pathway; however, contaminant concentrations were not detected above the EGLE Non-Residential Particulate Soil Inhalation Cleanup Criteria. Therefore, the Particulate Soil Inhalation pathway is not complete and does not appear to present a significant exposure risk.



#### 4.5.1.6 Direct Contact

Direct Contact is a relevant exposure pathway; however, contaminant concentrations were not detected above the EGLE Non-Residential Direct Contact Cleanup Criteria. Therefore, the Direct Contact pathway is not complete and does not appear to present a significant exposure risk.

#### 4.5.2 Groundwater Exposure

The following subsections describe the potential groundwater exposure pathways and evaluate hazardous substances relative to Part 201 NRCC criteria. The following groundwater exposure pathways have been evaluated:

- Groundwater Venting to Surface Water (GSI),
- Drinking Water (DW); and
- Groundwater Volatilization to Indoor Air Inhalation (GVIAI).

#### 4.5.2.1 Groundwater Venting to Surface Water

Contaminant concentrations were not detected at the subject property exceeding the EGLE GSI Criteria, Groundwater Venting to Surface Water is not a human exposure pathway, but rather an exposure pathway based on aquatic toxicity. Groundwater was encountered at the subject property and the closest surface body of water ranges from 200 feet to 0.83 miles from the subject property. Wade Trim has not taken and does not intend to take any actions that would make the GSIP pathway complete on the subject property.

#### 4.5.2.2 Drinking Water

Drinking Water Protection is a relevant exposure pathway. Analytical results did not indicate that contaminant concentrations exceed the DW criteria. Drinking water at the subject property will not be provided. Groundwater beneath the property will not be used for any purpose in the future except for environmental investigation, monitoring and/or remediation as necessary. Therefore, the drinking water pathway is not complete and does not appear to present a significant exposure risk.

#### 4.5.2.3 Volatilization to Indoor Air

Groundwater Volatilization to Indoor Air Inhalation is a relevant exposure pathway; however, analytical results indicate that contaminant concentrations are below GVIAI criteria. Therefore, based on analytical results, the groundwater volatilization to indoor air inhalation exposure pathway is not complete and does not appear to present a significant exposure risk.

#### 4.5.3 Potential Fire or Explosion Hazards

Analytical results were compared to flammability and explosivity screening levels. Groundwater contaminant levels are below flammability and explosivity levels. Based on site conditions encountered and analytical results, no flammability and explosivity hazards were identified at the subject property.

#### 5.0 Response Activity

Response activities are necessary when unacceptable exposures exist. As documented above, there are no unacceptable exposures at the subject property. The risk of exacerbation is described in Section 6.0 below.



#### 6.0 Compliance with Section 7A Obligations

Compliance with due care obligations is discussed in the following sections to ensure due care needs are met for the subject property.

#### 6.1 Exacerbation

One element of due care compliance is avoiding exacerbation of existing contamination. This obligation applies during the proposed use and includes a prohibition against (a) spreading the existing contamination; and (b) increasing response activity costs for a liable party.

The subject property is currently vacant land covered with grassy and wooded vegetation, and overhead power lines. A proposed secondary water supply along a 6-mile stretch adjacent to Dort Highway from the City of Flint's Water Treatment Plant to Frances Road of a 36-inch diameter transmission main and construction of a master meter vault adjacent to the connection point. These features will be maintained, and will likely reduce infiltration of precipitation to soil, thereby reducing the likelihood of exacerbating the soil contamination and the risk of off-site migration.

#### **During Construction Activities**

Unless proper characterization is conducted, impacted from Sections A and C soil should not be relocated to another parcel during construction activities.

#### 6.2 Due Care

As presented in Section 4.5, there are no unacceptable exposure risks at the subject property.

#### 6.3 Reasonable Precautions

Section 20107a(1)(c) requires the Owner to take reasonable precautions against the reasonable foreseeable acts or omissions of a third party, and the consequences that could result from those acts or omissions.

The administrators of this Section 7a Compliance Analysis will assume operations of the subject property for municipal utility purposes. Therefore, known users of the subject property include employees, third parties conducting routine construction and maintenance, and customers. The Disclosure Statement (Appendix C) provides a mechanism to notify contractors and inform third parties conducting subsurface activities that contamination exists at the subject property.

#### 6.4 Access

Wade Trim will provide reasonable cooperation, assistance, and access to parties authorized to conduct response activities at the facility, as necessary. However, as previously discussed there are no unacceptable exposure risks at the subject property. Therefore, it is unlikely that access to the subject property by other parties will be necessary.

#### 6.5 Compliance With Use Restrictions

There no known recorded land use or resource use restrictions on the subject property.



#### 6.6 Integrity of Use Restrictions

There no known recorded land use or resource use restrictions on the subject property.

#### 7.0 Soil Management

Soils, debris, and residual materials generated from all construction activities on the property shall be managed in accordance with this plan. Soils and fill materials that are excavated during construction will be returned to the property to the extent that such reuse: 1) is acceptable with the Contract documents, 2) does not negatively impact the final work product, 3) does not exacerbate environmental contamination on the property, 4) does not create an unacceptable risk of exposure to environmental contaminants, or 5) does not otherwise pose a concern to human health and the environment.

#### 7.1.1 Stockpile Methods

If soil stockpiling is necessary as a temporary soil management strategy, the Contractor shall stockpile excess soils, and cover the materials with plastic sheeting. Soil stockpiles will be placed on a visqueen or comparable liner (minimum of 6 mil in thickness) and continuously encircled with a berm and/or silt fence. Residual soil will only be stockpiled at locations on the subject property approved in advance by the administrator.

Contaminated soil or residuals will only be stored in an area where adequate controls can be utilized to prevent the migration of impacted media. Particular attention will be given to preventing runoff of contaminated materials to the adjoining surface water and sewers. Stockpiled materials should be located spatially, as far as possible away from surface water and sewer inlets as practical. Response actions and construction activities should be conducted in a phased manner to limit the amount of time impacted soils are exposed. The plastic sheeting must be placed in a manner that prevents precipitation exposures. Moreover, the bottom sheet dimensions should be at least 6-foot larger than the dimensions of the stockpile base so that the excess base material can be wrapped upward, secured, and subsequently covered with the top sheeting and secured to prevent water intrusion from below or above the stockpile. The plastic sheeting can consist of visqueen or comparable liner (minimum of 6 mil in thickness) and the stockpile(s) should be continuously encircled with a berm and/or silt fence, as necessary. Furthermore, the excavation will be completed in a timely manner in an effort to minimize the potential for groundwater or precipitation accumulation.

Precipitation shall not be permitted to accumulate with stockpiled soil. Contaminated soil/materials shall be contained and covered at all times. This shall be accomplished by accumulation in appropriate containers or by construction of containment. The Contractor shall be responsible for maintenance of plastic sheeting, as necessary to prevent contact of potentially contaminated materials with precipitation or surface run-off, which may require the use of a surrounding earthen berm beneath the lower plastic sheeting. If berms are used, the berms shall be contiguous with the base and an impermeable membrane used to cover the berm base. Silt fence shall be provided at the perimeter of stockpiled materials, if necessary, to prevent erosion of stockpiled soils. Hay bales and inlet protection fabric may be used as needed near catch basins, and other discharge points. Stockpiles will be kept covered at all times with appropriately anchored tarps or plastic sheeting. Stockpiles will be routinely inspected, and damaged covers will be promptly replaced. Stockpiles will be inspected at a minimum of once each week and after every storm event.



#### 7.1.2 Materials Excavation and Load Out

The administrator will oversee all of the Contractor's invasive work and the excavation and load-out of all excavated material. The Contractors are solely responsible for safe execution of all invasive and other work performed under this plan. The presence of utilities and easements on the subject property will be investigated by the Contractor.

Precautions must be taken to ensure that impacted soils are protected from rainfall and storm water. If subsurface soil becomes exposed through excavation, appropriate action must be taken to prevent leaching of contaminants due to stormwater contact. Actions could include: (1) promptly returning impacted soil to the excavation and restoring the surface cover, (2) removing the impacted soil to a proper disposal facility, and backfilling with clean fill material, and/or (3) encapsulating impacted material with plastic sheeting (as described above).

Soil must be handled in a manner that prevents erosion and runoff to a surface water or beyond the property boundary. Soil erosion and sedimentation control plans shall be followed for site work activities. Erosion controls (silt fencing or other barriers) must be utilized around the perimeter of work areas and around any areas where excavated soil is stockpiled or mounded. Also, refer to stockpile methods in 7.1.1.

Promptly fill excavations, below grade areas or voids to ensure water does not collect within the area. If excavations remain open and groundwater or storm water accumulates in the excavation, all water must be handled as described below.

It is permissible to leave encountered groundwater in place if compatible with the Contract Specifications. In the event that dewatering of excavations is required, or the containment and management of other ground water, liquid residuals, or surface waters at the site is necessary to facilitate the completion of construction activities, the Contractor will use the following procedures.

Groundwater derived from dewatering activities on the subject property shall not be discharged to a sanitary sewer without the proper sampling, analytical testing, and prior written consent of the administrator after obtaining the requisite permits for the selected discharge. In no instance shall ground water be discharged to a storm sewer, surface water or to the ground surface on the property.

In the event that the Contractor determines the volume of fluids requiring management on-site is excessive (e.g. high-water table conditions, excessive precipitation), the Contractor will notify the administrator immediately. Alternate management methods, including obtaining permits for direct discharge to the municipal sanitary sewer as appropriate, will be explored and obtained, as necessary to manage the fluids in accordance with all Federal, State and local regulations.

Contractor is responsible for all necessary permits, licenses, waste characterization, coordination of waste profiles and manifests, submittal of all notices, notifications, and associated fees.

#### 7.1.3 Vehicle Track-Out Prevention Plan

The Contractor will be responsible for ensuring that all outbound trucks will be free of debris before leaving the subject property until the activities performed under this section are complete. Locations where vehicles enter or exit the subject property shall be inspected daily for evidence of off-site soil tracking. The Contractor is responsible for ensuring that all egress points for truck and equipment transport from the subject property are clean of dirt and other materials derived from the subject



property during intrusive excavation activities. Cleaning of the adjacent streets will be performed by the Contractor, as needed, to maintain a clean condition with respect to site-derived materials.

The Contractor shall take measures to consistently prevent vehicular track-out of materials from the site to the adjacent public thoroughfares. Such measures may include, but are not limited to:

- 1. Construction of gravel approaches or temporary wheel washes near egress locations from the work area and washing of vehicle tires prior to leaving the work area.
- 2. Minimize vehicular traffic through exposed soil areas.
- 3. Mechanical removal of track-out materials from paved roadways.

All equipment and vehicles, including tires, must be clean of soil before exiting the site. Vehicle and equipment cleaning stations will be located near each entrance to the site. Vehicles and equipment will be cleaned of dirt using brushes and/or pressure washing. All soil and wash water from cleaning stations will be contained and remain on-site in accordance with the requirements of this plan. Following proper waste characterization sampling/analysis and approval from Buena Vista Township, water can be discharged to the sanitary sewer system or will be manifested and transported for disposal at a licensed and approved waste treatment facility.

When track-out onto thoroughfares occurs, the Contractor will, as soon as practical, contain, and remove the residual material that was carried off-site, but no later than the end of the day. Track-out material recovered from off-site will be returned to the site and managed consistent with the other soil at the subject property.

It is the Contractor's responsibility to document the track-out mitigation activities, including the dates and times, which control and cleanup activities are conducted. It is also the Contractor's responsibility to conduct other necessary remedial activities, including training of Contractor and subcontractor personnel, to prevent the re-occurrence of track-out in the future.

#### 8.0 Signatures of Environmental Professionals

AKT Peerless prepared this Section 7a Compliance Analysis on behalf of the Wade Trim for the property located at Flint Secondary Water Supply Project, Flint, Genesee County, Michigan. AKT Peerless' scope of work is based on Section 20126(1)(c) of Part 201 of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended.

Jeff Carr

Group Leader - Project Manager

**AKT Peerless** 

Great Lakes Bay Michigan Region

Phone: 989.754.9896 Fax: 989-754-3804 Kammie Hauger

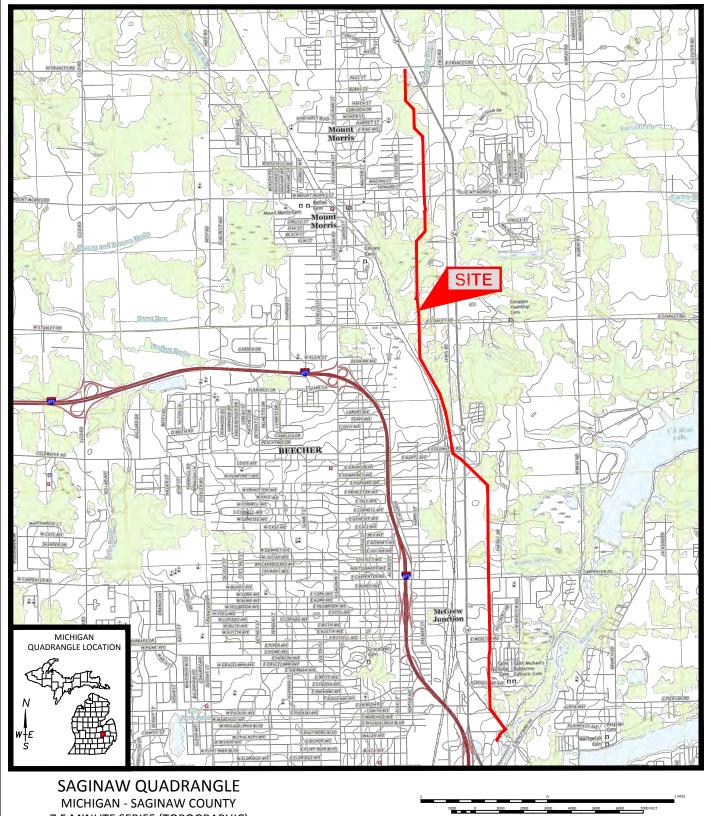
**Environmental Consultant** 

**AKT Peerless** 

**Great Lakes Bay Michigan Region** 



## **Figures**



7.5 MINUTE SERIES (TOPOGRAPHIC)

IMAGE TAKEN FROM 2017 U.S.G.S. TOPOGRAPHIC MAP



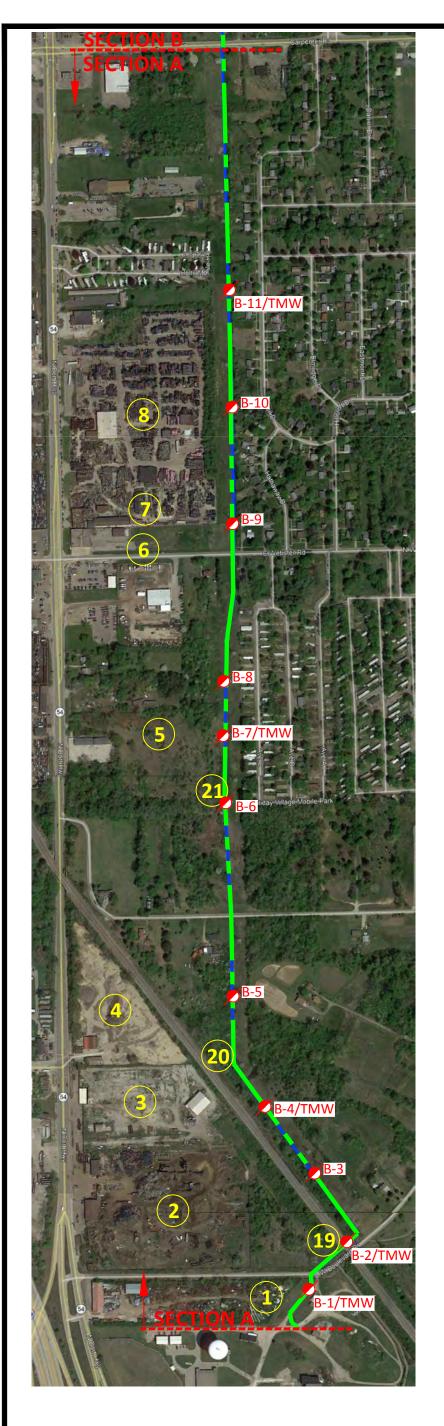


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#### **TOPOGRAPHIC LOCATION MAP**

FLINT, MICHIGAN PROJECT NUMBER: 14535s-2-20 DRAWN BY: OGO DATE: 11/19/2019

FIGURE 1







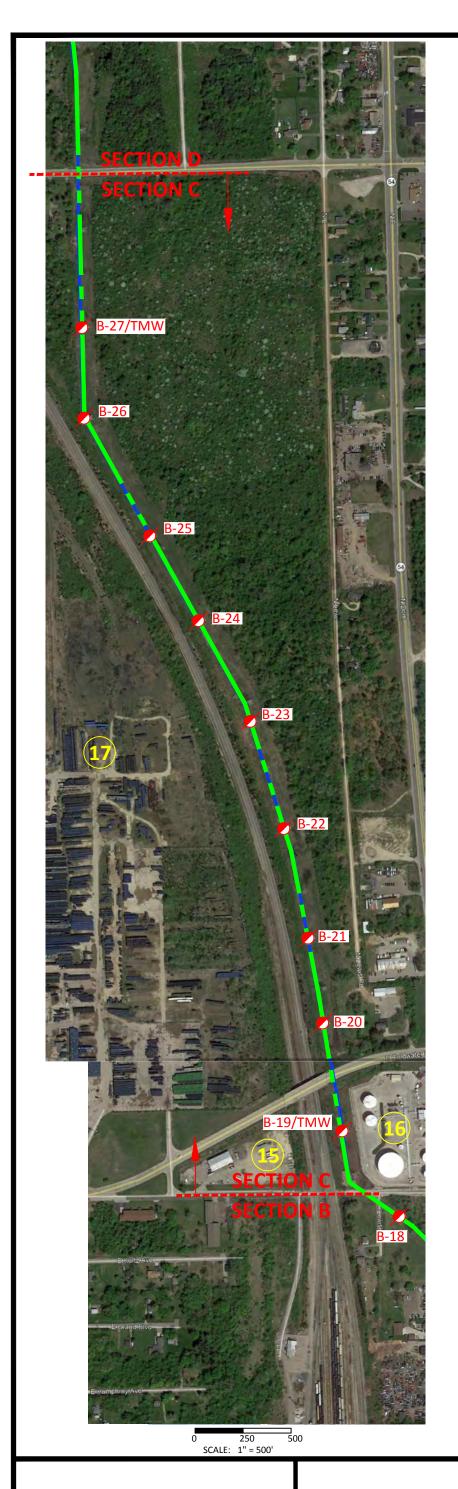
SUBJECT PROPERTY MAP

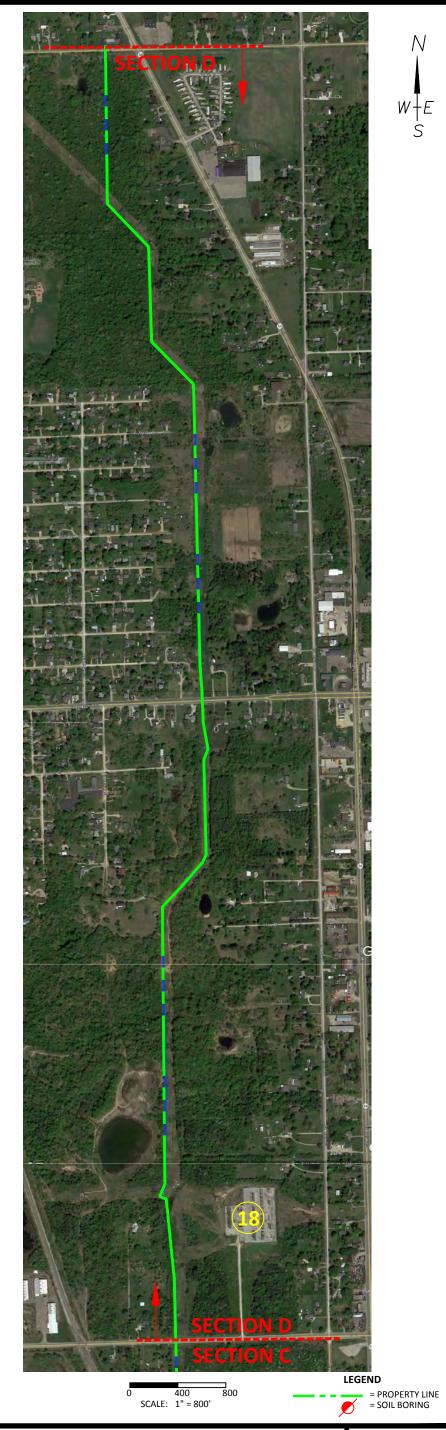
FLINT, MICHIGAN PROJECT NUMBER: 14535s-2-20 = PROPERTY LINE = SOIL BORING DRAWN BY: OGO

DATE:

FIGURE 2

11/19/2019

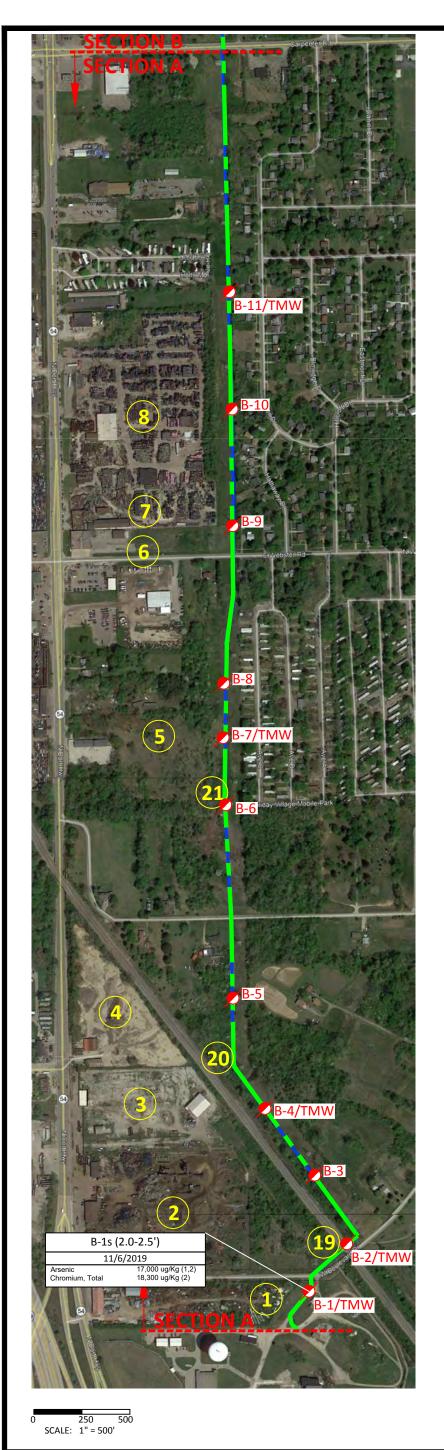


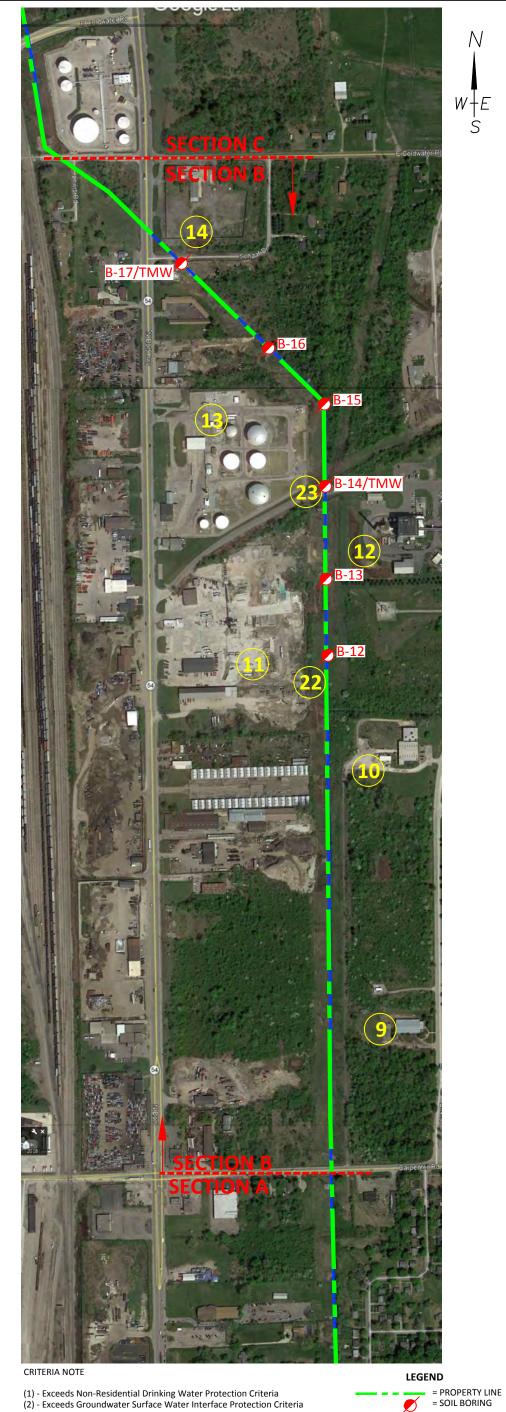




SUBJECT PROPERTY MAP

FLINT, MICHIGAN PROJECT NUMBER: 14535s DRAWN BY: OGO
DATE: 11/19/2019



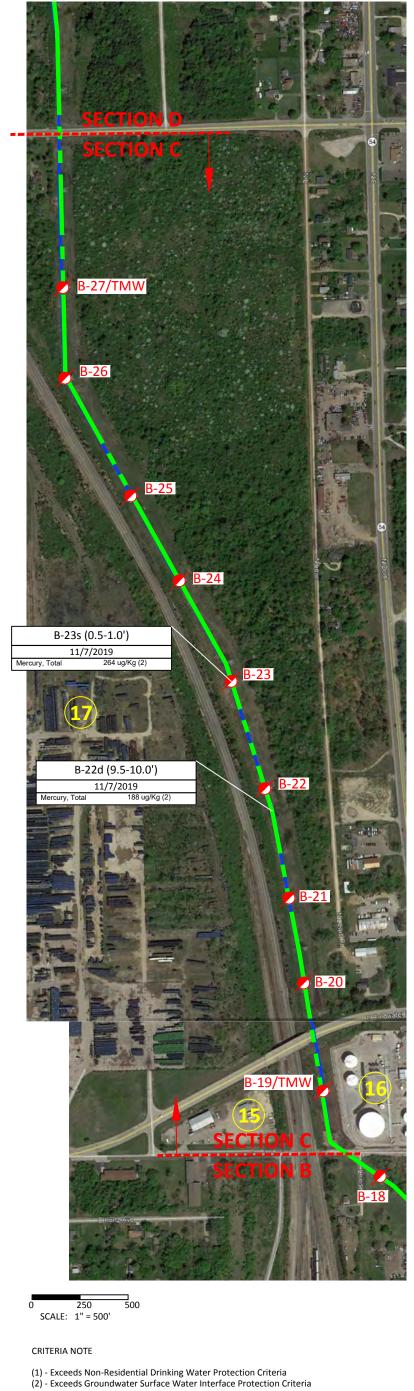




SITE MAP WITH SOIL RESULTS EXCEEDING EGLE NRCC

FLINT, MICHIGAN PROJECT NUMBER: 14535s-2-20 DRAWN BY: OGO

DATE: 11/21/2019









SITE MAP WITH SOIL RESULTS EXCEEDING EGLE NRCC

FLINT, MICHIGAN PROJECT NUMBER: 14535s DRAWN BY: OGO DATE: 11/21/2019

W + E



## **Tables**



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Guidesheet Number →		#10	#12	#21	#22	#23	#24	#25	#26	#27	Lab ID	10829-1	10829-2	10822-1	10822-2	10822-3	10822-4	10822-5	10822-6	10822-7	10822-8	10822-9
Guidesneet Hambel /		20		"22		25	2	25	20													
Parameters*											Sample ID	B-1s	B-1d	B-2s	B-2d	B-3s	B-3d	B-4s	B-4d	B-5s	B-5d	B-6s
	Chemical	Statewide	Groundwater	Non-Residential	Non-Residential	Non-Residential Infinite Source	Non-Residential	Non-Residential	Non-Residential	Non-Residential	C. H. H. B. L.	44 (5 (40	44/5/40	44 /5 /40	44 /5 /40	44/5/40	44 /5 /40	44/5/40	44 /5 /40	44 /5 /40	44/5/40	44/5/40
	Abstract Service	Default Background	Surface Water Interface	Drinking Water Protection	Soil Volatilization to Indoor Air	Volatile Soil	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact	Collection Date	11/6/19	11/6/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19
*(Refer to detailed laboratory report for	Number	Levels	Protection Criteria	Criteria	Inhalation Criteria	Inhalation Criteria (VSIC)	Thickness	Thickness	Criteria	Criteria												
method reference data)						Citteria (VSiC)					Depth	2-2.5'	9.5-10'	1.5-2'	9.5-10'	1.5-2'	9.5-10'	2.5-3'	7.5-8'	4.5-5'	9.5-10'	0.5-1'
Metals, ug/Kg																						
Arsenic (B)	7440-38-2	5,800	4,600	4,600	NLV	NLV	NLV	NLV	9.10E+05	37,000		17,000	314	824	1,120	718	4,020	1,480	1,680	1,120	872	1,220
Barium (B)	7440-39-3	75,000	(G)	1.30E+06	NLV	NLV	NLV	NLV	1.50E+08	1.30E+08		421,000	61,500	82,400	120,000	15,800	21,300	11,800	12,200	13,200	6,400	7,560
Cadmium (B)	7440-43-9	1,200	(G,X)	6,000	NLV	NLV	NLV	NLV	2.20E+06	2.10E+06		470	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Chromium, Total (Cr VI criteria)	7440-47-3	18,000 (total)	3,300	30,000	NLV	NLV	NLV	NLV	2.40E+05	9.20E+06		18,300	12,300	11,600	17,800	3,690	5,920	4,040	4,590	3,590	2,650	< 2000
Copper (B)	7440-50-8	32,000	(G)	5.80E+06	NLV	NLV	NLV	NLV	5.90E+07	7.30E+07		82,900	7,710	11,100	11,900	4,210	7,620	6,020	6,900	2,050	3,630	4,120
Lead (B)	7439-92-1	21,000	(G,X)	7.00E+05	NLV 80,000	NLV	NLV	NLV	4.40E+07	9.0E+5 (DD)		164,000	7,990	6,810	7,930	2,560	4,200	2,690	2,980	3,000	2,750	2,260
Mercury, Total (B, Z) Selenium (B)	Varies 7782-49-2	<b>130</b> 410	<b>50 (M); 1.2</b>	1,700 4,000	89,000 NLV	62,000 NLV	62,000 NLV	62,000 NLV	8.80E+06 5.90E+07	5.80E+05 9.60E+06		59	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Silver (B)	7/82-49-2	1,000	100 (M); 27	13,000	NLV	NLV	NLV	NLV	2.90E+06	9.00E+06		< 200 <b>126</b>	< 200 < 100	< 200	< 200	< 200 < 100	< 200	< 200 < 100	< 200	< 200	< 200 < 100	< 200 < 100
Zinc (B)	7440-22-4	47,000	(G)	5.00E+06	NLV	NLV	NLV	NLV	2.90L+00	6.30E+08		137,000	< 100 <b>7,400</b>	< 100 <b>24,200</b>	< 100 <b>32,000</b>	< 100 <b>15,200</b>	< 100 33,200	< 100 19,200	< 100 <b>24,200</b>	< 100 <b>8,400</b>	< 100 9,400	< 100 16,000
Semivolatiles, PNAs, ug/Kg	300	,	1=1		**=*				<del>-</del>			137,000	7,400	۷4,200	32,000	13,200	33,200	13,200	£4,£UU	0,400	3,400	10,000
Acenaphthene	83-32-9	NA	8,700	8.80E+05	3.50E+08	9.70E+07	9.70E+07	9.70E+07	6.20E+09	1.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acenaphthylene	208-96-8	NA	ID	17,000	3.00E+06	2.70E+06	2.70E+06	2.70E+06	1.00E+09	5.20E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	120-12-7	NA	ID	41,000	1.0E+9 (D)	1.60E+09	1.60E+09	1.60E+09	2.90E+10	7.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	80,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	ID	ID	80,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	8.00E+05		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	NLV	NLV	3.50E+08	7.00E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.90E+06	8,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	ID	ID	8.00E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	8,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	206-44-0	NA	5,500	7.30E+05	1.0E+9 (D)	8.90E+08	8.80E+08	8.80E+08	4.10E+09	1.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluorene	86-73-7	NA	5,300	8.90E+05	1.0E+9 (D)	1.50E+08	1.50E+08	1.50E+08	4.10E+09	8.70E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA NA	NLL 4.200	NLL	NLV 4.005+06	NLV 1.005+06	NLV 1.00F+0C	NLV 1.805 - OC	1D	80,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	91-57-6 91-20-3	NA NA	4,200 730	1.70E+05 1.00E+05	4.90E+06 4.70E+05	1.80E+06 3.50E+05	1.80E+06 3.50E+05	1.80E+06 3.50E+05	2.90E+08 8.80E+07	2.60E+07 5.20E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene Phenanthrene	85-01-8	NA NA	2,100	1.60E+05	5.10E+06	1.90E+05	1.90E+05	1.90E+05	2.90E+06	5.20E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	129-00-0	NA NA	ID	4.80E+05	1.0E+9 (D)	7.80E+08	7.80E+08	7.80E+08	2.90E+09	8.40E+07		< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330
Volatiles, VOCs, ug/Kg						1.000						V 330	\ 330	\ 330	<b>\ 330</b>	\ 330	V 330	\ 330	\ 330	\ 330	<b>\ 330</b>	\ 330
Acetone (I)	67-64-1	NA	34,000	42,000	5.4E+8 (C)	1.60E+08	1.60E+08	2.00E+08	1.70E+11	7.30E+07		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Benzene (I)	71-43-2	NA	4,000 (X)	100	8,400	45,000	99,000	2.30E+05	4.70E+08	8.4E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Bromobenzene (I)	108-86-1	NA	NA	1,500	5.80E+05	5.40E+05	5.40E+05	5.40E+05	2.40E+08	1.7E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromodichloromethane	75-27-4	NA	ID	1,600 (W)	6,400	31,000	31,000	57,000	1.10E+08	4.90E+05		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromoform	75-25-2	NA	ID	1,600 (W)	7.70E+05	3.10E+06	3.10E+06	3.10E+06	3.60E+09	3.8E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromomethane	74-83-9	NA	100	580	1,600	13,000	57,000	1.40E+05	1.50E+08	1.00E+06		< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2-Butanone (MEK) (I)	78-93-3	NA	44,000	7.60E+05	9.9E+7 (C)	3.50E+07	3.50E+07	3.60E+07	2.90E+10	7.0E+8 (C,DD)		< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750
n-Butylbenzene	104-51-8	NA	ID	4,600	ID	ID	ID	ID	8.80E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
sec-Butylbenzene	135-98-8	NA	ID	4,600	ID	ID	ID	ID	1.80E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
tert-Butylbenzene (I)	98-06-6	NA	ID	4,600	ID	ID	ID	ID	2.90E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide (I,R)	75-15-0	NA	ID	46,000	1.40E+05	1.60E+06	8.00E+06	1.90E+07	2.10E+10	4.3E+7 (C,DD)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon tetrachloride	56-23-5	NA 	760 (X)	100	990	12,000	34,000	79,000	1.70E+08	4.4E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chlorobenzene (I)	108-90-7	NA NA	500	2,000	2.20E+05	9.20E+05	1.10E+06	2.10E+06	2.10E+09	1.4E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chlorofthane	75-00-3	NA NA	22,000 (X)	34,000	5.3E+6 (C)	3.60E+07	1.20E+08	2.80E+08	2.90E+11	1.2E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Chloromethane (I)	67-66-3 74-87-3	NA NA	7,000 ID	1,600 (W)	38,000	1.50E+05	3.40E+05	7.90E+05	1.60E+09	5.5E+6 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chloromethane (I)  2-Chlorotoluene (I)	74-87-3 95-49-8	NA NA	ID ID	22,000 9,300	10,000 5.00E+05	1.20E+05 1.50E+06	1.00E+06 3.10E+06	2.50E+06 6.40E+06	2.60E+09 2.10E+09	7.4E+6 (C) 1.5E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Dibromochloromethane	124-48-1	NA NA	ID	1,600 (W)	21,000	80,000	80,000	98,000	1.60E+08	5.00E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2-Dibromo-3-Chloropropane	96-12-8	NA NA	ID	10 (M); 4.0	1,200	900	900	900	7.0E+5	20,000 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2-ыыныно-э-споторгоране	30-12-8	IVA	טו	10 (IVI); 4.0	1,200	900	900	900	/.UE+5	20,000 (C)		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10



Content				1		1	T			1	1			1							I		Τ
Part	Guidesheet Number →		#10	#12	#21	#22	#23	#24	#25	#26	#27	Lab ID	10829-1	10829-2	10822-1	10822-2	10822-3	10822-4	10822-5	10822-6	10822-7	10822-8	10822-9
Part	Guidesineer Namiber		#10	"12	"21	1122	1123	1124	1123	#20	1127												
March   Marc	Parameters*											Sample ID	B-1s	B-1d	B-2s	B-2d	B-3s	B-3d	B-4s	B-4d	B-5s	B-5d	B-6s
March   Marc		Chemical	Statewide	Groundwater	Non-Residential	Non-Residential		Non-Residential	Non-Residential	Non-Residential	Non-Residential	C. H I' B. I	44 (5 (40)	44/5/40	44 /5 /40	44 /5 /40	44 /5 /40	44 /5 /40	44 /5 /40	44/5/40	44/5/40	44/5/40	44/5/40
Part												Collection Date	11/6/19	11/6/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19
Company	*(Refer to detailed laboratory report for										Criteria												
March   Marc	method reference data)						Criteria (VSiC)					Depth	2-2.5'	9.5-10'	1.5-2'	9.5-10'	1.5-2'	9.5-10'	2.5-3'	7.5-8'	4.5-5'	9.5-10'	0.5-1'
March   Marc																							
March   Marc	Dibromomethane	74-95-3	NA	NA	4,600	ID	ID	ID	ID	ID	8.0E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Second Companies	1,2-Dichlorobenzene	95-50-1	NA	280	14,000	2.0E+7 (C)	4.60E+07	4.60E+07	5.50E+07	4.40E+10	6.3E+7 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Property columns				+				· · · · · · · · · · · · · · · · · · ·	-				< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Control   Cont				+	•	+			1	+			< 100										< 100
Second content   Second   Se					1				-														< 250
Part	<u>'</u>			· · · · · · · · · · · · · · · · · · ·							1												< 50
Control   Cont				1	1			•	1	+													< 50
Part   Communication   Part	·																						< 50
1.5   1.5	· · · · · · · · · · · · · · · · · · ·			<u> </u>	· ·				+														< 50 < 50
14   15   16   16   17   18   18   18   18   18   18   18					· ·				+														< 50 < 50
Part				1	1				1	+													< 50
Propose   Prop				1					-														< 50
Part	Ethylene dibromide (1,2-Dibromoethane)	106-93-4	NA	110 (X)	20 (M); 1.0	3,600	5,800	5,800	9,800	1.80E+07	430												< 20
Descriptiones   Septe   Sept	Hexachlorobutadiene	87-68-3	NA	91	72,000	7.1E+5 (C)	4.60E+05	4.60E+05	4.60E+05	1.80E+08	4.7E+5 (C)		< 50	< 50	< 50	< 50	< 50		< 50				< 50
March Approximate (1997)   March Approximate (	2-Hexanone	591-78-6	NA	ID	58,000	1.80E+06	1.30E+06	1.30E+06	1.50E+06	1.20E+09	1.0E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Marting control   1949   194	Isopropyl benzene	98-82-8	NA	3,200	2.60E+05	7.3E+5 (C)	2.00E+06	2.00E+06	3.00E+06	2.60E+09	8.0E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Performance   19-69-2   NA   \$0,0000   10   2   20.000   190-6   190-6   190-6   130	4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	ID	1.00E+05	6.9E+7 (C)	5.30E+07	5.30E+07	7.00E+07	6.00E+10	1.8E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Methyladae   93476   No.   4.20   100-05   480-05   120	Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	1.4E+5 (X)	800	1.8E+7 (C)	3.00E+07	4.10E+07	8.90E+07	8.80E+10	7.1E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
September   Sept	Methylene chloride	75-09-2	NA	30,000 (X)	100	2.40E+05	7.00E+05	1.70E+06	4.00E+06	8.30E+09	5.8E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Prophenome   19	2-Methylnaphthalene			1	1	+			1	+			< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Second Column   100 4 7	Naphthalene				1								< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
13.1.2 Friendshorehome   69.046   NA   1.00   6.400   33.000   1.26 + 65   2.26 + 65   3.36 + 65   5.26 + 65   6.26 + 65   6.26   6.20   6.100   6.1				+																			< 100
1.1.2.2. Tetrachkrorethane				1		1			1	+	•												< 50
Tetrahiprodurian   127-184					•				1	+	•												< 100
Tetrahydrofuran   109-99   NA   2.2E+5 (X)   5.400   2.400,000   1.5E+7   1.6E+8   1.7E+11   9.50E+06   1.0E+16 (C)   1.0E+16				+	1			•															< 50 < 50
Tolume (i)   108 88-3   NA   \$5,400   16,000   6.1E+5 (c)   3.30E+07   3.60E+07   3.40E+07   3.40				1	+	<b>†</b>			1														< 1000
1.2.4-Trichlorobename 120-82-1 NA 5,500 (X) 4,700 1.816-7 (C) 3.40E+07 3.40E+07 3.40E+07 2.90E+10 1.05E+10 (C) 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	·			+																			< 1000
1.1.1-frichioroethane		120-82-1	NA	5,900 (X)	•	1	3.40E+07		1	1.10E+10	•												< 250
1,12-Trichloroethane	1,1,1-Trichloroethane	71-55-6	NA	1,800	4,000	4.60E+05	4.50E+06	1.50E+07	3.10E+07	2.90E+10	1.0E+9 (C,D)												< 50
Trichloroethylene   79-01-6	1,1,2-Trichloroethane	79-00-5	NA	6,600 (X)	100	24,000	57,000	57,000	1.20E+05	2.50E+08	8.40E+05												< 50
1,2,3-Trichloropropane   96-18-4	Trichloroethylene	79-01-6	NA	4,000 (X)	100	1,900	14,000	25,000	58,000	5.9E+7	6.6E+5 (C,DD)		< 50		< 50								< 50
1,2,4-Trimethylbenzene (f) 95-63-6 NA 570 2,100 8.0E+6 (C) 2.50E+07 6.00E+08 6.00E+08 3.60E+10 1.0E+8 (C) 1.35-Trimethylbenzene (f) 108-67-8 NA 1,100 1,800 4.8E+6 (C) 1.90E+07 4.60E+08 4.60E+08 3.60E+10 1.0E+8 (C) 1.35-Trimethylbenzene (f) 108-05-4 NA NA 36,000 1.50E+06 2.00E+06 2.70E+06 5.90E+06 5.90E+06 5.90E+06 5.90E+09 3.4E+7 (C,DD) Vinyl chloride 75-01-4 NA 260 (K) 40 2,800 29,000 1.70E+05 4.20E+05 8.90E+08 34,000 Xylenes (f) 1330-20-7 NA 980 5,600 1.2E+7 (C) 5.40E+07 6.50E+07 1.30E+08 1.30E+11 1.0E+9 (C,D) PCB, ug/Ng  PCB, Aroclor 1016 12674-11-2 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T) PCB, Aroclor 1221 11114-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T) PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T) NS	Trichlorofluoromethane	75-69-4	NA	NA	1.50E+05	5.1E+6(C)	1.10E+08	1.40E+11	1.40E+11	1.70E+12	2.6E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene (i) 108-67-8 NA 1,100 1,800 4.8E+6 (C) 1.90E+07 4.60E+08 4.60E+08 3.60E+10 1.0E+8 (C) Vinyl acetate (i) 108-05-4 NA NA 36,000 1.50E+06 2.00E+06 2.70E+06 5.90E+06 5.90E+06 5.90E+06 5.90E+09 3.4E+7 (C,DD) Vinyl chloride 75-01-4 NA 260 (X) 40 2.800 29,000 1.70E+05 4.20E+05 8.90E+08 34,000 Xylenes (i) 1330-20-7 NA 980 5,600 1.2E+7 (C) 5.40E+07 6.50E+07 1.30E+08 1.30E+11 1.0E+9 (C,D) PCBs, ug/Kg  PCB, Aroclor 1016 12674-11-2 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 2.80E+07 6.50E+06 (T) PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 2.80E+07 6.50E+06 (T) NS	1,2,3-Trichloropropane	96-18-4	NA	NA	2,400	7,500	11,000	11,000	12,000	8.80E+06	4.2E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl acetate (i) 108-05-4 NA NA 260 (X) 40 2,800 29,000 1.70E+05 5.90E+06 5.90E+06 5.90E+08 3.4E+7 (C,DD)   Vinyl chloride 75-01-4 NA 260 (X) 40 2,800 29,000 1.70E+05 4.20E+05 8.90E+08 34,000   Xylenes (i) 1330-20-7 NA 980 5,600 1.2E+7 (C) 5.40E+07 6.50E+07 1.30E+08 1.30E+11 1.0E+9 (C,D)   PCBs, ug/Kg  PCB, Aroclor 1016 12674-11-2 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)   PCB, Aroclor 1221 11104-28-2 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)   PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 2.80E+07 6.50E+06 (T)   NS N	1,2,4-Trimethylbenzene (I)	95-63-6	NA	570	2,100	8.0E+6 (C)	2.50E+07	6.00E+08	6.00E+08	3.60E+10	1.0E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl chloride 75-01-4 NA 260 (X) 40 2,800 29,000 1.70E+05 4.20E+05 8.90E+08 34,000   Xylenes (I) 1330-20-7 NA 980 5,600 1.2E+7 (C) 5.40E+07 6.50E+07 1.30E+08 1.30E+11 1.0E+9 (C,D)    PCBs, ug/Kg				1		1			+	+			< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Xylenes (I) 1330-20-7 NA 980 5,600 1.2E+7 (C) 5.40E+07 6.50E+07 1.30E+08 1.30E+11 1.0E+9 (C,D)  PCBs, ug/Kg  PCB, Aroclor 1221 11104-28-2 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1242 11141-16-5 NA NILL NILL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB,				+		+			+	+			< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
PCBs, ug/Kg         Interview of the control of t				1					1														< 40
PCB, Aroclor 1016		1330-20-7	NA	980	5,600	1.2E+7 (C)	5.40E+07	6.50E+07	1.30E+08	1.30E+11	1.0E+9 (C,D)		< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150
PCB, Aroclor 1221 11104-28-2 NA NLL NLL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  PCB, Aroclor 1232 11141-16-5 NA NLL NLL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  NS N		12674 44 2	NI A	All I	ALL I	1.005.07	9.405.05	2.005 / 07	2.005 : 07	6.505,00	/+\												
PCB, Aroclor 1232 11141-16-5 NA NLL NLL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T)  NS N					1	+			-	+													NS NS
				+	+	+			1														NS NS
	PCB, Aroclor 1232	53469-21-9	NA NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07 2.80E+07	2.80E+07	6.50E+06	(T)		NS NS	NS NS	NS NS	NS NS	< 100 < 100	< 100 < 100	NS NS	NS NS	< 100 < 100	< 100 < 100	NS NS
PCB, Aroclor 1248  12672-29-6  NA  NLL  NLL  1.60E+07  8.10E+05  2.80E+07  2.80E+07  6.50E+06  (T)  NS  NS  NS  NS  NS  NS  NS  NS  NS  N						-					†												NS NS
PCB, Aroclor 1254 11097-69-1 NA NLL NLL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T) NS				+	+	+			1	+													NS NS
PCB, Aroclor 1260 11096-82-5 NA NLL NLL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T) NS NS NS NS < 100 < 100 NS NS					1	+			1	+													NS
Total PCBs (J, T) 1336-36-3 NA NLL NLL 1.60E+07 8.10E+05 2.80E+07 2.80E+07 6.50E+06 (T) NS NS NS NS < 700 < 700 NS NS < 700 < 700	, ,			+	+	-					ł												NS



Guidesheet Number →		#10	#12	#21	#22	#23	#24	#25	#26	#27	Lab ID	10822-10	10822-11	10822-12	10822-13	10822-14	10822-15	10822-16	10829-4	10829-5	10829-6	10829-7
Guidesneet Number		#10	112	"21	1122	1123	112-4	1123	1120	"27												
Parameters*											Sample ID	B-6d	B-7s	B-7d	B-8s	B-8d	B-9s	B-9d	B-10s	B-10d	B-11s	B-11d
	Chemical	Statewide	Groundwater	Non-Residential	Non-Residential	Non-Residential Infinite Source	Non-Residential		Non-Residential	Non-Residential	Collection Date	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/6/19	11/6/19	11/6/19	11/6/19
	Abstract Service	Default Background	Surface Water Interface	Drinking Water Protection	Soil Volatilization to Indoor Air	Volatile Soil	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact	Collection Date	11/3/13	11/3/19	11/3/19	11/3/19	11/3/19	11/3/19	11/3/13	11/0/19	11/0/19	11/0/19	11/0/13
*(Refer to detailed laboratory report for	Number	Levels	<b>Protection Criteria</b>	Criteria	Inhalation Criteria	Inhalation Criteria (VSIC)	Thickness	Thickness	Criteria	Criteria												
method reference data)						, ,					Depth	4.5-5'	3-3.5'	9.5-10'	3-3.5'	9.5-10'	1.5-2'	9.5-10'	6.5-7'	9.5-10'	1.5-2'	9.5-10'
Metals, ug/Kg	7440-38-2	5,800	4,600	4.600	NLV	NIIV	NUV	NLV	9.10E+05	37,000	-											
Arsenic (B) Barium (B)	7440-38-2	75,000	(G)	<b>4,600</b> 1.30E+06	NLV	NLV NLV	NLV NLV	NLV	1.50E+08	1.30E+08	-	1,480	1,220	1,300	1,390	1,410	1,210	1,480	< 100	146	950	< 100
Cadmium (B)	7440-43-9	1,200	(G,X)	6,000	NLV	NLV	NLV	NLV	2.20E+06	2.10E+06	1	<b>9,180</b> < 200	<b>13,200</b> < 200	<b>8,920</b> < 200	<b>10,200</b> < 200	<b>48,900</b> < 200	39,200 447	<b>38,500</b> < 200	<b>83,000</b> < 200	<b>86,000</b> < 200	42,700 234	<b>62,100</b> < 200
Chromium, Total (Cr VI criteria)	7440-47-3	18,000 (total)	3,300	30,000	NLV	NLV	NLV	NLV	2.40E+05	9.20E+06	-	2,900	5,190	2.800	3,360	13,500	7,500	10,500	11,000	14,400	7.820	13,400
Copper (B)	7440-50-8	32,000	(G)	5.80E+06	NLV	NLV	NLV	NLV	5.90E+07	7.30E+07	1	5,350	7,210	5,460	4,530	12,000	12,200	9,320	8,780	9,430	9,040	9,840
Lead (B)	7439-92-1	21,000	(G,X)	7.00E+05	NLV	NLV	NLV	NLV	4.40E+07	9.0E+5 (DD)		2,390	4,330	3,250	3,250	7,240	27,700	14,300	2,890	7,180	15,400	7,290
Mercury, Total (B, Z)	Varies	130	50 (M); 1.2	1,700	89,000	62,000	62,000	62,000	8.80E+06	5.80E+05		< 50	< 50	< 50	< 50	< 50	70	< 50	< 50	< 50	< 50	< 50
Selenium (B)	7782-49-2	410	400	4,000	NLV	NLV	NLV	NLV	5.90E+07	9.60E+06		< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Silver (B)	7440-22-4	1,000	100 (M); 27	13,000	NLV	NLV	NLV	NLV	2.90E+06	9.00E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Zinc (B)	7440-66-6	47,000	(G)	5.00E+06	NLV	NLV	NLV	NLV	ID	6.30E+08		16,400	18,600	16,800	14,400	33,600	56,400	31,200	28,600	37,200	4,200	33,200
Semivolatiles, PNAs, ug/Kg																						<u> </u>
Acenaphthene	83-32-9	NA	8,700	8.80E+05	3.50E+08	9.70E+07	9.70E+07	9.70E+07	6.20E+09	1.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acenaphthylene	208-96-8	NA	ID	17,000	3.00E+06	2.70E+06	2.70E+06	2.70E+06	1.00E+09	5.20E+06	_	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	120-12-7	NA NA	ID	41,000	1.0E+9 (D)	1.60E+09	1.60E+09	1.60E+09	2.90E+10	7.30E+08	-	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene (Q)	56-55-3 205-99-2	NA NA	NLL NLL	NLL NLL	NLV ID	NLV ID	NLV ID	NLV ID	ID ID	80,000	-	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene (Q) Benzo(k)fluoranthene (Q)	205-99-2	NA NA	NLL	NLL	NLV	NLV	NLV	NLV	ID ID	80,000 8.00E+05	-	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	191-24-2	NA NA	NLL	NLL	NLV	NLV	NLV	NLV	3.50E+08	7.00E+06	-	< 330 < 330	< 330 < 330	< 330	< 330	< 330 < 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene (Q)	50-32-8	NA NA	NLL	NLL	NLV	NLV	NLV	NLV	1.90E+06	8,000	-	< 330	< 330	< 330 < 330	< 330 < 330	< 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	ID	ID	8.00E+06	-	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	8,000	1	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	206-44-0	NA	5,500	7.30E+05	1.0E+9 (D)	8.90E+08	8.80E+08	8.80E+08	4.10E+09	1.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluorene	86-73-7	NA	5,300	8.90E+05	1.0E+9 (D)	1.50E+08	1.50E+08	1.50E+08	4.10E+09	8.70E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	80,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	91-57-6	NA	4,200	1.70E+05	4.90E+06	1.80E+06	1.80E+06	1.80E+06	2.90E+08	2.60E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	91-20-3	NA	730	1.00E+05	4.70E+05	3.50E+05	3.50E+05	3.50E+05	8.80E+07	5.20E+07	_	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Phenanthrene	85-01-8	NA	2,100	1.60E+05	5.10E+06	1.90E+05	1.90E+05	1.90E+05	2.90E+06	5.20E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	129-00-0	NA	ID	4.80E+05	1.0E+9 (D)	7.80E+08	7.80E+08	7.80E+08	2.90E+09	8.40E+07	-	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Volatiles, VOCs, ug/Kg	67-64-1	NA	34,000	42,000	5.4E+8 (C)	1.60E+08	1.60E+08	2.00E+08	1.70E+11	7.30E+07	-											
Acetone (I)  Benzene (I)	71-43-2	NA NA	4,000 (X)	100	8,400	45,000	99,000	2.30E+05	4.70E+08	8.4E+5 (C)		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromobenzene (I)	108-86-1	NA NA	4,000 (X)	1,500	5.80E+05	5.40E+05	5.40E+05	5.40E+05	2.40E+08	1.7E+6 (C)		< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100
Bromodichloromethane	75-27-4	NA	ID	1,600 (W)	6,400	31,000	31,000	57,000	1.10E+08	4.90E+05		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromoform	75-25-2	NA	ID	1,600 (W)	7.70E+05	3.10E+06	3.10E+06	3.10E+06	3.60E+09	3.8E+6 (C)	1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromomethane	74-83-9	NA	100	580	1,600	13,000	57,000	1.40E+05	1.50E+08	1.00E+06		< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2-Butanone (MEK) (I)	78-93-3	NA	44,000	7.60E+05	9.9E+7 (C)	3.50E+07	3.50E+07	3.60E+07	2.90E+10	7.0E+8 (C,DD)		< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750
n-Butylbenzene	104-51-8	NA	ID	4,600	ID	ID	ID	ID	8.80E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
sec-Butylbenzene	135-98-8	NA	ID	4,600	ID	ID	ID	ID	1.80E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
tert-Butylbenzene (I)	98-06-6	NA	ID	4,600	ID	ID	ID	ID	2.90E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide (I,R)	75-15-0	NA	ID	46,000	1.40E+05	1.60E+06	8.00E+06	1.90E+07	2.10E+10	4.3E+7 (C,DD)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon tetrachloride	56-23-5	NA	760 (X)	100	990	12,000	34,000	79,000	1.70E+08	4.4E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chlorobenzene (I)	108-90-7	NA NA	500	2,000	2.20E+05	9.20E+05	1.10E+06	2.10E+06	2.10E+09	1.4E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chloroethane	75-00-3	NA NA	22,000 (X)	34,000	5.3E+6 (C)	3.60E+07	1.20E+08	2.80E+08	2.90E+11	1.2E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Chloromethane (I)	67-66-3 74-87-3	NA NA	7,000 ID	1,600 (W) 22,000	38,000 10,000	1.50E+05 1.20E+05	3.40E+05 1.00E+06	7.90E+05 2.50E+06	1.60E+09 2.60E+09	5.5E+6 (C) 7.4E+6 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chloromethane (I)  2-Chlorotoluene (I)	95-49-8	NA NA	ID	9,300	5.00E+05	1.50E+05	3.10E+06	6.40E+06	2.10E+09	1.5E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Dibromochloromethane	124-48-1	NA NA	ID	1,600 (W)	21,000	80,000	80,000	98,000	1.60E+08	5.00E+05		< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100
1,2-Dibromo-3-Chloropropane	96-12-8	NA NA	ID	10 (M); 4.0	1,200	900	900	900	7.0E+5	20,000 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
-,:statio o cinoropropune	30 12 0		1 15	20 (.11), 4.0	2,200	300	1 300	300	7.52.5	20,000 (0)		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10



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Guidesheet Number →		#10	#12	#21	#22	#23	#24	#25	#26	#27	Lab ID	10822-10	10822-11	10822-12	10822-13	10822-14	10822-15	10822-16	10829-4	10829-5	10829-6	10829-7
galacs/rect/tailisc.		20	,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,	25	2	25	20	"2"												
Parameters*											Sample ID	B-6d	B-7s	B-7d	B-8s	B-8d	B-9s	B-9d	B-10s	B-10d	B-11s	B-11d
	Chemical	Statewide	Groundwater	Non-Residential	Non-Residential	Non-Residential Infinite Source	Non-Residential		Non-Residential	Non-Residential	Collection Date	11/5/19	11/5/10	11/5/10	11/5/10	11/5/10	11 /F /10	11/5/19	11/6/10	11/6/19	11/6/10	11/6/19
	Abstract Service	Default Background	Surface Water Interface	Drinking Water Protection	Soil Volatilization to Indoor Air	Volatile Soil	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact	Collection Date	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/6/19	11/6/19	11/6/19	11/6/19
*(Refer to detailed laboratory report for	Number	Levels	Protection Criteria	Criteria	Inhalation Criteria	Inhalation Criteria (VSIC)	Thickness	Thickness	Criteria	Criteria												
method reference data)						Criteria (VSIC)					Depth	4.5-5'	3-3.5'	9.5-10'	3-3.5'	9.5-10'	1.5-2'	9.5-10'	6.5-7'	9.5-10'	1.5-2'	9.5-10'
Dibromomethane	74-95-3	NA	NA	4,600	ID	ID	ID	ID	ID	8.0E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2-Dichlorobenzene	95-50-1	NA	280	14,000	2.0E+7 (C)	4.60E+07	4.60E+07	5.50E+07	4.40E+10	6.3E+7 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3-Dichlorobenzene	541-73-1	NA	680	480	48,000	94,000	94,000	1.10E+05	8.80E+07	6.6E+5 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,4-Dichlorobenzene	106-46-7	NA	360	1,700	1.00E+05	2.60E+05	2.60E+05	3.40E+05	5.70E+08	1.90E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Dichlorodifluoromethane	75-71-8	NA 	ID	2.70E+05	1.70E+06	6.30E+07	5.50E+08	1.40E+09	1.50E+12	1.7E+8 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,1-Dichloroethane	75-34-3	NA NA	15,000	50,000	4.30E+05	2.50E+06	6.00E+06	1.40E+07	1.50E+10	8.7E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2-Dichloroethane (I)	107-06-2	NA NA	7,200 (X)	100	11,000	21,000	33,000	74,000	1.50E+08	4.20E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethylene (I) cis-1,2-Dichloroethylene	75-35-4 156-59-2	NA NA	2,600 12,000	1,400	330 41,000	3,700 2.10E+05	15,000 4.30E+05	37,000 1.00E+06	7.80E+07 1.00E+09	6.6E+5 (C) 8.0E+6 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
trans-1,2-Dichloroethylene	156-59-2	NA NA	30,000 (X)	2,000	43,000	3.30E+05	4.30E+05 8.40E+05	2.00E+06	2.10E+09	1.2E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2-Dichloropropane (I)	78-87-5	NA NA	4,600 (X)	100	7,400	30,000	51,000	1.20E+05	1.20E+09	6.6E+5 (C)		< 50 < 50										
1,3-Dichloropropene	542-75-6	NA NA	180 (X)	700	5,400	60,000	2.00E+05	4.70E+05	5.90E+08	2.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylbenzene (I)	100-41-4	NA NA	360	1,500	4.6E+5 (C)	2.40E+06	3.10E+06	6.50E+06	1.30E+10	7.1E+7 (C)		< 50	< 50	< 50	< 50	< 50 < 50	< 50	< 50	< 50	< 50	< 50 < 50	< 50
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	NA	110 (X)	20 (M); 1.0	3,600	5,800	5,800	9,800	1.80E+07	430		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hexachlorobutadiene	87-68-3	NA	91	72,000	7.1E+5 (C)	4.60E+05	4.60E+05	4.60E+05	1.80E+08	4.7E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	591-78-6	NA	ID	58,000	1.80E+06	1.30E+06	1.30E+06	1.50E+06	1.20E+09	1.0E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Isopropyl benzene	98-82-8	NA	3,200	2.60E+05	7.3E+5 (C)	2.00E+06	2.00E+06	3.00E+06	2.60E+09	8.0E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	ID	1.00E+05	6.9E+7 (C)	5.30E+07	5.30E+07	7.00E+07	6.00E+10	1.8E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	1.4E+5 (X)	800	1.8E+7 (C)	3.00E+07	4.10E+07	8.90E+07	8.80E+10	7.1E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Methylene chloride	75-09-2	NA	30,000 (X)	100	2.40E+05	7.00E+05	1.70E+06	4.00E+06	8.30E+09	5.8E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	91-57-6	NA	4,200	1.70E+05	4.90E+06	1.80E+06	1.80E+06	1.80E+06	2.90E+08	2.60E+07		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	91-20-3	NA	730	1.00E+05	4.70E+05	3.50E+05	3.50E+05	3.50E+05	8.80E+07	5.20E+07		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
n-Propylbenzene (I)	103-65-1	NA	ID	4,600	ID	ID	ID	ID	5.90E+08	8.00E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Styrene	100-42-5	NA	2,100 (X)	2,700	1.3E+6 (C)	3.30E+06	3.30E+06	4.20E+06	6.90E+09	1.9E+6 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1,2-Tetrachloroethane	630-20-6	NA	ID	6,400	33,000	1.20E+05	2.10E+05	3.30E+05	5.30E+08	2.2E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,1,2,2-Tetrachloroethane	79-34-5	NA 	1,600 (X)	700	23,000	34,000	34,000	34,000	6.80E+07	2.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachioroethylene	127-18-4	NA NA	1,200 (X)	100	21,000	2.1E+5	4.9E+5	1.1E+6	1.2E+9	9.3E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrahydrofuran	109-99-9 108-88-3	NA NA	2.2E+5 (X) 5.400	5,400 16,000	2,400,000 6.1E+5 (C)	1.5E+7 3.30E+06	6.7E+7 3.60E+07	1.6E+8 3.60E+07	1.7E+11 1.20E+10	9.50E+06 1.6E+8 (C)		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Toluene (I)  1,2,4-Trichlorobenzene	120-82-1	NA NA	5,900 (X)	4,200	1.8E+7 (C)	3.40E+07	3.40E+07	3.40E+07	1.10E+10	5.8E+6 (C,DD)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,1,1-Trichloroethane	71-55-6	NA NA	1,800	4,000	4.60E+05	4.50E+06	1.50E+07	3.10E+07	2.90E+10	1.0E+9 (C,D)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,1,2-Trichloroethane	79-00-5	NA NA	6,600 (X)	100	24,000	57,000	57,000	1.20E+05	2.50E+08	8.40E+05		< 50 < 50										
Trichloroethylene	79-01-6	NA NA	4,000 (X)	100	1,900	14,000	25,000	58,000	5.9E+7	6.6E+5 (C,DD)		< 50	< 50	< 50	< 50	< 50 < 50	< 50	< 50	< 50	< 50	< 50 < 50	< 50
Trichlorofluoromethane	75-69-4	NA NA	NA	1.50E+05	5.1E+6(C)	1.10E+08	1.40E+11	1.40E+11	1.70E+12	2.6E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,3-Trichloropropane	96-18-4	NA	NA	2,400	7,500	11,000	11,000	12,000	8.80E+06	4.2E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,4-Trimethylbenzene (I)	95-63-6	NA	570	2,100	8.0E+6 (C)	2.50E+07	6.00E+08	6.00E+08	3.60E+10	1.0E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,100	1,800	4.8E+6 (C)	1.90E+07	4.60E+08	4.60E+08	3.60E+10	1.0E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl acetate (I)	108-05-4	NA	NA	36,000	1.50E+06	2.00E+06	2.70E+06	5.90E+06	5.90E+09	3.4E+7 (C,DD)		< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Vinyl chloride	75-01-4	NA	260 (X)	40	2,800	29,000	1.70E+05	4.20E+05	8.90E+08	34,000		< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Xylenes (I)	1330-20-7	NA	980	5,600	1.2E+7 (C)	5.40E+07	6.50E+07	1.30E+08	1.30E+11	1.0E+9 (C,D)		< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150
PCBs, ug/Kg																						
PCB, Aroclor 1016	12674-11-2	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS	NS	NS	< 100	< 100	NS	NS
PCB, Aroclor 1221	11104-28-2	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS	NS	NS	< 100	< 100	NS	NS
PCB, Aroclor 1232	11141-16-5	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS	NS	NS	< 100	< 100	NS	NS
PCB, Aroclor 1242	53469-21-9	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS	NS	NS	< 100	< 100	NS	NS
PCB, Aroclor 1248	12672-29-6	NA 	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS	NS	NS	< 100	< 100	NS	NS
PCB, Aroclor 1254	11097-69-1	NA NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS	NS	NS	< 100	< 100	NS	NS
PCB, Aroclor 1260	11096-82-5	NA NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS	NS	NS	< 100	< 100	NS	NS
Total PCBs (J, T)	1336-36-3	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 700	< 700	NS	NS	NS	NS	< 700	< 700	NS	NS



Parameters   Par	10829-16  B-15s  11/6/19  1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330  <330  <330  <330  <330	11/6/19  1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330	10829-17  B-15d  11/6/19  9.5-10'  366  202,000  247  11,200  10,900  9,470  < 50  < 200  < 100  36,000	10829-18  B-16s  11/7/19  1-1.5'  420  47,500  395  3,750  11,300  23,000  < 50  < 200  < 100	10829-19  B-16d  11/7/19  9.5-10'  628  49,800  < 200  7,560  9,420  6,950  < 50  < 200	10829-20  B-17s  11/7/19  5-5.5'  172  64,000  < 200  6,270  5,990  5,800  < 50
Parameters   Par	11/6/19  1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330  <330  <330	11/6/19  1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330	11/6/19  9.5-10'  366  202,000  247  11,200  10,900  9,470  < 50  < 200  < 100	11/7/19 1-1.5' 420 47,500 395 3,750 11,300 23,000 <50 <200	9.5-10'  628  49,800  < 200  7,560  9,420  6,950  < 50	11/7/19  5-5.5'  172  64,000  < 200  6,270  5,990  5,800  < 50
Parameters	11/6/19  1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330  <330  <330	11/6/19  1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330	11/6/19  9.5-10'  366  202,000  247  11,200  10,900  9,470  < 50  < 200  < 100	11/7/19 1-1.5' 420 47,500 395 3,750 11,300 23,000 <50 <200	9.5-10'  628  49,800  < 200  7,560  9,420  6,950  < 50	11/7/19  5-5.5'  172  64,000  < 200  6,270  5,990  5,800  < 50
Chemical	1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330  <330  <330	1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330	9.5-10'  366 202,000 247 11,200 10,900 9,470 <50 <200 <100	420 47,500 395 3,750 11,300 23,000 < 50 < 200	9.5-10' 628 49,800 < 200 7,560 9,420 6,950 < 50	5-5.5'  172  64,000  < 200  6,270  5,990  5,800  < 50
Variety to decide Informatory report for method reference data)   Variety Services   Va	1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330  <330  <330	1.5-2'  142  46,500  209  11,600  11,000  6,600  55  234  <100  46,800  <330	9.5-10'  366 202,000 247 11,200 10,900 9,470 <50 <200 <100	420 47,500 395 3,750 11,300 23,000 < 50 < 200	9.5-10' 628 49,800 < 200 7,560 9,420 6,950 < 50	5-5.5'  172  64,000  < 200  6,270  5,990  5,800  < 50
Tright of decision for incomes darking processes from the processes of t	142 46,500 209 11,600 11,000 6,600 55 234 <100 46,800 <330 <330 <330	142 46,500 209 11,600 11,000 6,600 55 234 <100 46,800	366 202,000 247 11,200 10,900 9,470 < 50 < 200 < 100	420 47,500 395 3,750 11,300 23,000 < 50 < 200	628 49,800 < 200 7,560 9,420 6,950 < 50	172 64,000 < 200 6,270 5,990 5,800 < 50
Metals, sprig	142 46,500 209 11,600 11,000 6,600 55 234 <100 46,800 <330 <330 <330	142 46,500 209 11,600 11,000 6,600 55 234 <100 46,800	366 202,000 247 11,200 10,900 9,470 < 50 < 200 < 100	420 47,500 395 3,750 11,300 23,000 < 50 < 200	628 49,800 < 200 7,560 9,420 6,950 < 50	172 64,000 < 200 6,270 5,990 5,800 < 50
Remark (8)	46,500 209 11,600 11,000 6,600 55 234 <100 46,800 <330 <330 <330	46,500 209 11,600 11,000 6,600 55 234 <100 46,800 <<330	202,000 247 11,200 10,900 9,470 < 50 < 200 < 100	47,500 395 3,750 11,300 23,000 < 50 < 200	49,800 < 200 7,560 9,420 6,950 < 50	64,000 < 200 6,270 5,990 5,800 < 50
Accordance   Column	46,500 209 11,600 11,000 6,600 55 234 <100 46,800 <330 <330 <330	46,500 209 11,600 11,000 6,600 55 234 <100 46,800 <<330	202,000 247 11,200 10,900 9,470 < 50 < 200 < 100	47,500 395 3,750 11,300 23,000 < 50 < 200	49,800 < 200 7,560 9,420 6,950 < 50	64,000 < 200 6,270 5,990 5,800 < 50
Ratium (B)	46,500 209 11,600 11,000 6,600 55 234 <100 46,800 <330 <330 <330	46,500 209 11,600 11,000 6,600 55 234 <100 46,800 <<330	202,000 247 11,200 10,900 9,470 < 50 < 200 < 100	47,500 395 3,750 11,300 23,000 < 50 < 200	49,800 < 200 7,560 9,420 6,950 < 50	64,000 < 200 6,270 5,990 5,800 < 50
Communic (8)   7440 43 9   1,200   (6,3)   6,000   NLV   NLV   NLV   NLV   NLV   2,20E+06   2,10E+06   2,00E+06   7,550   13,300   3,900   3,900   3,900   NLV   NLV   NLV   NLV   NLV   2,20E+06   9,70E+07   7,30E+07	209 11,600 11,000 6,600 55 234 < 100 46,800 < 330 < 330	209 11,600 11,000 6,600 55 234 <100 46,800	247 11,200 10,900 9,470 < 50 < 200 < 100	395 3,750 11,300 23,000 < 50 < 200	< 200 7,560 9,420 6,950 < 50	< 200 6,270 5,990 5,800 < 50
Commission   Com	11,600 11,000 6,600 55 234 < 100 46,800 < 330 < 330 < 330	11,600 11,000 6,600 55 234 <100 46,800	11,200 10,900 9,470 < 50 < 200 < 100	3,750 11,300 23,000 < 50 < 200	7,560 9,420 6,950 < 50	6,270 5,990 5,800 < 50
Copper (B)   7440-50-8   32,000   (G)   5.80f-06   NLV   NLV   NLV   NLV   S.50f-07   7.30f-07	11,000 6,600 55 234 <100 46,800 <330 <330	11,000 6,600 55 234 <100 46,800	10,900 9,470 < 50 < 200 < 100	23,000 < 50 < 200	9,420 6,950 < 50	<b>5,990 5,800</b> < 50
Reside   10	6,600 55 234 <100 46,800 <330 <330 <330	6,600 55 234 < 100 46,800	9,470 < 50 < 200 < 100	23,000 < 50 < 200	<b>6,950</b> < 50	<b>5,800</b> < 50
Mercury, Total (8, 7)	55 234 <100 46,800 <330 <330 <330	55 234 < 100 46,800	< 50 < 200 < 100	< 50 < 200	< 50	< 50
Selenium   B	<pre>234 &lt; 100 46,800  &lt; 330 &lt; 330 &lt; 330 </pre>	234 < 100 46,800	< 200 < 100	< 200		
Silver (B)   7440-22-4   1,000   100 (M); 27   13,000   NIV   NIV   NIV   NIV   NIV   2.90E+06   9.00E+06	<100 46,800 <330 <330 <330	< 100 <b>46,800</b> < 330	< 100		\ 200	< 200
Table   Tabl	46,800 < 330 < 330 < 330	<b>46,800</b> < 330		- 100	< 100	< 100
Semivolatiles, PNAs, ug/kg	< 330 < 330 < 330	< 330		63,200	23,400	12,200
Acenaphthylene 208-96-8 NA ID 17,000 3.00E+06 2.70E+06 2.70E+06 1.00E+09 5.20E+06 Anthracene 120-12-7 NA ID 41,000 1.0E+9 (D) 1.60E+09 1.60E+09 1.60E+09 2.90E+10 7.30E+08	< 330 < 330		1	,		
Anthracene 120-12-7 NA ID 44,000 1.0E+9 (D) 1.6DE+09 1.6D	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene (Q)   56-55-3   NA   NILL   NI			< 330	< 330	< 330	< 330
Benzo(b)fluoranthene (Q)   205-99-2   NA   NILL   NILL   NILL   NILV	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene (Q) 207-08-9 NA NILL NLL NLV NLV NLV NLV NLV NLV 1D 8.00E+05  Benzo(g,h,i)perylene 191-24-2 NA NILL NLL NLV NLV NLV NLV NLV 1.90E+06 8,000  Chrysene (Q) 218-01-9 NA NILL NLL NLL NLL NLV NLV NLV NLV NLV NLV N		< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene 191-24-2 NA NILL NLL NLV NLV NLV NLV 1.90E+06 8,000	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene (Q) 50-32-8 NA NILL NLL NLL NLV NLV NLV 1.90E+06 8,000 Chrysene (Q) 218-01-9 NA NILL NLL NLL ID ID ID ID ID 8.00E+06 Dibenzo(a,h)anthracene (Q) 53-70-3 NA NILL NLL NLL NLV NLV NLV NLV NLV ID 8,000 Fluoranthene 206-44-0 NA 5,500 7.30E+05 1.0E+9 (D) 8.90E+08 8.80E+08 8.80E+08 4.10E+09 1.30E+08	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene (Q) 218-01-9 NA NLL NLL ID ID ID ID ID 8.00E+06 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 3	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene (Q) 53-70-3 NA NLL NLL NLV NLV NLV NLV ID 8,000 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 < 330 <	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene 206-44-0 NA 5,500 7.30E+05 1.0E+9 (D) 8.90E+08 8.80E+08 4.10E+09 1.30E+08	< 330		< 330	< 330	< 330	< 330
1550 1550 1550 1550 1550 1550	< 330		< 330	< 330	< 330	< 330
Fluciele 66-73-7 NA 5,500 6.50E+05 1.50E+06 1.50E+06 4.10E+09 6.70E+07 <330 <330 <330 <330 <330 <330	< 330		< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene (Q) 193-39-5 NA NLL NLL NLV NLV NLV NLV ID 80,000 <330 <330 <330 <330 <330 <330	< 330		< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene (Q)	< 330 < 330		< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330
Naphthalene 91-20-3 NA 730 1.00E+05 4.70E+05 3.50E+05 3.50E+05 3.50E+05 3.50E+07 5.20E+07 < 330 < 330 < 330 < 330 < 330 < 330 < 330	< 330		< 330	< 330	< 330	< 330
Phenanthrene 85-01-8 NA 2,100 1.60E+05 5.10E+06 1.90E+05 1.90E+05 2.90E+06 5.20E+06 <330 <330 <330 <330 <330 <330 <330	< 330		< 330	< 330	< 330	< 330
Pyrene 129-00-0 NA ID 4.80E+05 1.0E+9 (D) 7.80E+08 7.80E+08 2.90E+09 8.40E+07 <330 <330 <330 <330 <330 <330	< 330		< 330	< 330	< 330	< 330
Volatiles, VOCs, ug/Kg						
Acetone (I) 67-64-1 NA 34,000 42,000 5.4E+8 (C) 1.60E+08 1.60E+08 2.00E+08 1.70E+11 7.30E+07 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <1000 <10	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Benzene (I) 71-43-2 NA 4,000 (X) 100 8,400 45,000 99,000 2.30E+05 4.70E+08 8.4E+5 (C) <50 <50 <50 <50 <50 <50	< 50	< 50	< 50	< 50	< 50	< 50
Bromobenzene (I) 108-86-1 NA NA 1,500 5.80E+05 5.40E+05 5.40E+05 5.40E+05 2.40E+08 1.7E+6 (C) <100 <100 <100 <100 <100 <100	< 100	< 100	< 100	< 100	< 100	< 100
Bromodichloromethane 75-27-4 NA ID 1,600 (W) 6,400 31,000 57,000 1.10E+08 4.90E+05 <100 <100 <100 <100 <100 <100	< 100	< 100	< 100	< 100	< 100	< 100
Bromoform 75-25-2 NA ID 1,600 (W) 7.70E+05 3.10E+06 3.10E+06 3.10E+06 3.60E+09 3.8E+6 (C) <100 <100 <100 <100 <100 <100	< 100	< 100	< 100	< 100	< 100	< 100
Bromomethane 74-83-9 NA 100 580 1,600 13,000 57,000 1.40E+05 1.50E+08 1.00E+06 < 200 < 200 < 200 < 200 < 200 < 200	< 200	< 200	< 200	< 200	< 200	< 200
2-Butanone (MEK) (I) 78-93-3 NA 44,000 7.60E+05 9.9E+7 (C) 3.50E+07 3.50E+07 2.90E+10 7.0E+8 (C,DD) < 750 < 750 < 750 < 750 < 750 < 750	< 750	< 750	< 750	< 750	< 750	< 750
n-Butylbenzene 104-51-8 NA ID 4,600 ID ID ID ID 8.80E+06 <50 <50 <50 <50 <50 <50 <50	< 50		< 50	< 50	< 50	< 50
sec-Butylbenzene 135-98-8 NA ID 4,600 ID ID ID ID 1.80E+08 8.00E+06 <50 <50 <50 <50 <50 <50 <50	< 50		< 50	< 50	< 50	< 50
tert-Butylbenzene (I) 98-06-6 NA ID 4,600 ID ID ID ID 2.90E+08 8.00E+06 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50	< 50		< 50	< 50	< 50	< 50
Carbon disulfide (I,R) 75-15-0 NA ID 46,000 1.40E+05 1.60E+06 8.00E+06 1.90E+07 2.10E+10 4.3E+7 (C,DD) < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250	< 250		< 250	< 250	< 250	< 250
	< 50		< 50	< 50	< 50	< 50
	< 50		< 50	< 50	< 50	< 50
Chlorofethane 75-00-3 NA 22,000 (X) 34,000 5.3E+6 (C) 3.60E+07 1.20E+08 2.80E+08 2.90E+11 1.2E+7 (C) < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 < 250 <	< 250 < 50		< 250 < 50	< 250 < 50	< 250 < 50	< 250 < 50
Chloromethane (I)  74-87-3  NA  ID  22,000  10,000  1.00E+05  1.00E+05  1.00E+06  2.50E+09  7.4E+6 (C) <a href="https://doi.org/10.1008/nj.006">Coloromethane (I)</a> 74-87-3  NA  ID  22,000  10,000  1.00E+05  1.00E+05  1.00E+06  2.50E+09  7.4E+6 (C)  7.4E+6 (C)  7.5E+06		< 250	< 50	< 250	< 250	< 250
2-Chlorotoluene (I) 95-49-8 NA ID 9,300 5.00E+05 1.50E+06 3.10E+06 6.40E+06 2.10E+09 1.5E+7 (C) <50 <50 <50 <50 <50 <50			< 50	< 50	< 50	< 50
Dibromochloromethane 124-48-1 NA ID 1,600 (W) 21,000 80,000 98,000 1.60E+08 5.00E+05 < 100 < 100 < 100 < 100 < 100		< 100	< 100	< 100	< 100	< 100
1,2-Dibromo-3-Chloropropane 96-12-8 NA ID 10 (M); 4.0 1,200 900 900 7.0E+5 20,000 (C) <10 <10 <10 <10 <10 <10	< 50	- 200	- 100	- 100	- 100	



			T		1				1	1					<u> </u>							
Guidesheet Number →	<u> </u>	#10	#12	#21	#22	#23	#24	#25	#26	#27	Lab ID	10829-9	10829-10	10829-11	10829-12	10829-13	10829-14	10829-16	10829-17	10829-18	10829-19	10829-20
Guidesheet Number 7		#10	#12	#21	#22	#25	π2-4	#23	#20	πΖΙ												
Parameters*											Sample ID	B-12s	B-12d	B-13s	B-13d	B-14s	B-14d	B-15s	B-15d	B-16s	B-16d	B-17s
	Chemical	Statewide	Groundwater	Non-Residential	Non-Residential	Non-Residential Infinite Source	Non-Residential	Non-Residential	Non-Residential	Non-Residential	C. H I' B. I	44 (5 (40)	44/5/40	44 (5 (40	44/5/40	44 (5 (40	44 (5 (40)	44 (5 (40)	44/5/40	44/7/40	44/7/40	44/7/40
	Abstract Service	Default Background	Surface Water Interface	Drinking Water Protection	Soil Volatilization to Indoor Air	Volatile Soil	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact	Collection Date	11/6/19	11/6/19	11/6/19	11/6/19	11/6/19	11/6/19	11/6/19	11/6/19	11/7/19	11/7/19	11/7/19
*(Refer to detailed laboratory report for	Number	Levels	Protection Criteria	Criteria	Inhalation Criteria	Inhalation Criteria (VSIC)	Thickness	Thickness	Criteria	Criteria												
method reference data)						Criteria (VSIC)					Depth	0.5-1'	9.5-10'	1.5-2'	9.5-10'	1-1.5'	7.5-8'	1.5-2'	9.5-10'	1-1.5'	9.5-10'	5-5.5'
Dibromomethane	74-95-3	NA	NA	4,600	ID	ID	ID	ID	ID	8.0E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2-Dichlorobenzene	95-50-1	NA	280	14,000	2.0E+7 (C)	4.60E+07	4.60E+07	5.50E+07	4.40E+10	6.3E+7 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3-Dichlorobenzene	541-73-1	NA	680	480	48,000	94,000	94,000	1.10E+05	8.80E+07	6.6E+5 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,4-Dichlorobenzene	106-46-7	NA	360	1,700	1.00E+05	2.60E+05	2.60E+05	3.40E+05	5.70E+08	1.90E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Dichlorodifluoromethane	75-71-8	NA NA	1D	2.70E+05	1.70E+06	6.30E+07	5.50E+08	1.40E+09	1.50E+12	1.7E+8 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,1-Dichloroethane 1,2-Dichloroethane (I)	75-34-3 107-06-2	NA NA	15,000 7,200 (X)	50,000 100	4.30E+05 11,000	2.50E+06 21,000	6.00E+06 33,000	1.40E+07 74,000	1.50E+10 1.50E+08	8.7E+7 (C) 4.20E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethylene (I)	75-35-4	NA NA	2,600	140	330	3,700	15,000	37,000	7.80E+07	6.6E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
cis-1,2-Dichloroethylene	156-59-2	NA NA	12,000	1,400	41,000	2.10E+05	4.30E+05	1.00E+06	1.00E+09	8.0E+6 (C)		< 50 < 50										
trans-1,2-Dichloroethylene	156-60-5	NA NA	30,000 (X)	2,000	43,000	3.30E+05	8.40E+05	2.00E+06	2.10E+09	1.2E+7 (C)		< 50 < 50										
1,2-Dichloropropane (I)	78-87-5	NA	4,600 (X)	100	7,400	30,000	51,000	1.20E+05	1.20E+08	6.6E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,3-Dichloropropene	542-75-6	NA	180 (X)	700	5,400	60,000	2.00E+05	4.70E+05	5.90E+08	2.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylbenzene (I)	100-41-4	NA	360	1,500	4.6E+5 (C)	2.40E+06	3.10E+06	6.50E+06	1.30E+10	7.1E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	NA	110 (X)	20 (M); 1.0	3,600	5,800	5,800	9,800	1.80E+07	430		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hexachlorobutadiene	87-68-3	NA	91	72,000	7.1E+5 (C)	4.60E+05	4.60E+05	4.60E+05	1.80E+08	4.7E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	591-78-6	NA	ID	58,000	1.80E+06	1.30E+06	1.30E+06	1.50E+06	1.20E+09	1.0E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Isopropyl benzene	98-82-8	NA	3,200	2.60E+05	7.3E+5 (C)	2.00E+06	2.00E+06	3.00E+06	2.60E+09	8.0E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	ID	1.00E+05	6.9E+7 (C)	5.30E+07	5.30E+07	7.00E+07	6.00E+10	1.8E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	1.4E+5 (X)	800	1.8E+7 (C)	3.00E+07	4.10E+07	8.90E+07	8.80E+10	7.1E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Methylene chloride	75-09-2	NA	30,000 (X)	100	2.40E+05	7.00E+05	1.70E+06	4.00E+06	8.30E+09	5.8E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	91-57-6	NA	4,200	1.70E+05	4.90E+06	1.80E+06	1.80E+06	1.80E+06	2.90E+08	2.60E+07		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	91-20-3 103-65-1	NA NA	730	1.00E+05 4,600	4.70E+05 ID	3.50E+05 ID	3.50E+05	3.50E+05	8.80E+07	5.20E+07		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
n-Propylbenzene (I) Styrene	100-42-5	NA NA	2,100 (X)	2,700	1.3E+6 (C)	3.30E+06	3.30E+06	4.20E+06	5.90E+08 6.90E+09	8.00E+06 1.9E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,1,1,2-Tetrachloroethane	630-20-6	NA NA	ID	6,400	33,000	1.20E+05	2.10E+05	3.30E+05	5.30E+08	2.2E+6 (C)		< 50 < 100										
1,1,2,2-Tetrachloroethane	79-34-5	NA	1,600 (X)	700	23,000	34,000	34,000	34,000	6.80E+07	2.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachloroethylene	127-18-4	NA	1,200 (X)	100	21,000	2.1E+5	4.9E+5	1.1E+6	1.2E+9	9.3E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrahydrofuran	109-99-9	NA	2.2E+5 (X)	5,400	2,400,000	1.5E+7	6.7E+7	1.6E+8	1.7E+11	9.50E+06		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Toluene (I)	108-88-3	NA	5,400	16,000	6.1E+5 (C)	3.30E+06	3.60E+07	3.60E+07	1.20E+10	1.6E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,4-Trichlorobenzene	120-82-1	NA	5,900 (X)	4,200	1.8E+7 (C)	3.40E+07	3.40E+07	3.40E+07	1.10E+10	5.8E+6 (C,DD)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,1,1-Trichloroethane	71-55-6	NA	1,800	4,000	4.60E+05	4.50E+06	1.50E+07	3.10E+07	2.90E+10	1.0E+9 (C,D)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,2-Trichloroethane	79-00-5	NA	6,600 (X)	100	24,000	57,000	57,000	1.20E+05	2.50E+08	8.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trichloroethylene	79-01-6	NA	4,000 (X)	100	1,900	14,000	25,000	58,000	5.9E+7	6.6E+5 (C,DD)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trichlorofluoromethane	75-69-4	NA	NA	1.50E+05	5.1E+6(C)	1.10E+08	1.40E+11	1.40E+11	1.70E+12	2.6E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,3-Trichloropropane	96-18-4	NA	NA	2,400	7,500	11,000	11,000	12,000	8.80E+06	4.2E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,4-Trimethylbenzene (I)	95-63-6	NA	570	2,100	8.0E+6 (C)	2.50E+07	6.00E+08	6.00E+08	3.60E+10	1.0E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene (I)	108-67-8	NA NA	1,100	1,800	4.8E+6 (C)	1.90E+07	4.60E+08	4.60E+08	3.60E+10	1.0E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl chlorido	108-05-4	NA NA	NA 260 (Y)	36,000 40	1.50E+06	2.00E+06	2.70E+06	5.90E+06	5.90E+09	3.4E+7 (C,DD)		< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Vinyl chloride Xylenes (I)	75-01-4 1330-20-7	NA NA	260 (X) 980	5,600	2,800 1.2E+7 (C)	29,000 5.40E+07	1.70E+05 6.50E+07	4.20E+05 1.30E+08	8.90E+08 1.30E+11	34,000 1.0E+9 (C,D)		< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
PCBs, ug/Kg	1550-20-7	IVA	300	3,000	1.2217 (0)	J.40L107	0.501107	1.501100	1.55111	1.02.3 (0,0)		< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150
PCB, Aroclor 1016	12674-11-2	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS										
PCB, Aroclor 1221	11104-28-2	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS NS	NS NS	NS NS	NS	NS	NS	NS NS	NS NS	NS NS	NS	NS NS
PCB, Aroclor 1232	11141-16-5	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	NS NS	NS	NS	NS	NS	NS	NS	NS	NS	NS NS
PCB, Aroclor 1242	53469-21-9	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS										
PCB, Aroclor 1248	12672-29-6	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS										
PCB, Aroclor 1254	11097-69-1	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS										
PCB, Aroclor 1260	11096-82-5	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS										
Total PCBs (J, T)	1336-36-3	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS										



Table 1: Summary of Soil Analytical Data Flint Secondary Water Supply Project Flint, Michigan AKT Peerless Project No. 14535s

			1	Γ		T	1		l		I											T
Guidesheet Number →		#10	#12	#21	#22	#23	#24	#25	#26	#27	- Lab ID	10829-21	10829-23	10829-24	10829-25	10829-26	10829-28	10829-29	10829-30	10829-31	10829-32	10829-33
Galacineer Hambel		#10	"12	1121	1122	1123	112-4	1123	1120	"27												
Parameters*											Sample ID	B-17d	B-18s	B-18d	B-19s	B-19d	B-20s	B-20d	B-21s	B-21d	B-22s	B-22d
	Chemical	Statewide	Groundwater	Non-Residential	Non-Residential	Non-Residential Infinite Source	Non-Residential		Non-Residential	Non-Residential	Collection Date	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19
	Abstract Service	Default Background	Surface Water Interface	Drinking Water Protection	Soil Volatilization to Indoor Air	Volatile Soil	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact	Collection Date	11/7/13	11/7/19	11///19	11///19	11///19	11///19	11/7/19	11/7/19	11///19	11/7/19	11///19
*(Refer to detailed laboratory report for	Number	Levels	Protection Criteria	Criteria	Inhalation Criteria	Inhalation Criteria (VSIC)	Thickness	Thickness	Criteria	Criteria												
method reference data)											Depth	9.5-10'	1.5-2'	9.5-10'	1-1.5'	9.5-10'	1-1.5'	9.5-10'	1-1.5'	9.5-10'	2-2.5'	9.5-10'
Adams																						
Metals, ug/Kg  Arsenic (B)	7440-38-2	5,800	4,600	4,600	NLV	NLV	NLV	NLV	9.10E+05	37,000		100	226	255	450	1100	270	214	. 100	NC	. 100	1100
Barium (B)	7440-39-3	75,000	(G)	1.30E+06	NLV	NLV	NLV	NLV	1.50E+08	1.30E+08		160 31,400	226 103,000	266 111,000	156 111,000	< 100 111,000	270 40,300	214 86,700	< 100 111,000	NS NS	< 100 18,700	< 100 111,000
Cadmium (B)	7440-43-9	1,200	(G,X)	6,000	NLV	NLV	NLV	NLV	2.20E+06	2.10E+06	_	< 200	< 200	204	< 200	< 200	< 200	< 200	< 200	NS	< 200	977
Chromium, Total (Cr VI criteria)	7440-47-3	18,000 (total)	3,300	30,000	NLV	NLV	NLV	NLV	2.40E+05	9.20E+06		7,210	11,500	13,700	12,800	11,900	8,380	11,700	12,800	NS	2.740	14,700
Copper (B)	7440-50-8	32,000	(G)	5.80E+06	NLV	NLV	NLV	NLV	5.90E+07	7.30E+07		4,540	5,230	7,460	8,210	6,520	4,700	3,950	7,410	NS	1,100	25,500
Lead (B)	7439-92-1	21,000	(G,X)	7.00E+05	NLV	NLV	NLV	NLV	4.40E+07	9.0E+5 (DD)		5,670	8,610	5,240	7,710	8,040	3,580	6,520	2,640	NS	5,080	59,400
Mercury, Total (B, Z)	Varies	130	50 (M); 1.2	1,700	89,000	62,000	62,000	62,000	8.80E+06	5.80E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NS	< 50	188
Selenium (B)	7782-49-2	410	400	4,000	NLV	NLV	NLV	NLV	5.90E+07	9.60E+06		< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	NS	< 200	< 200
Silver (B)	7440-22-4	1,000	100 (M); 27	13,000	NLV	NLV	NLV	NLV	2.90E+06	9.00E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	NS	< 100	< 100
Zinc (B)	7440-66-6	47,000	(G)	5.00E+06	NLV	NLV	NLV	NLV	ID	6.30E+08		14,200	21,000	23,800	25,800	26,200	32,000	23,000	30,800	NS	10,200	70,400
Semivolatiles, PNAs, ug/Kg																						
Acenaphthene	83-32-9	NA	8,700	8.80E+05	3.50E+08	9.70E+07	9.70E+07	9.70E+07	6.20E+09	1.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acthrosope	208-96-8	NA NA	ID	17,000	3.00E+06	2.70E+06	2.70E+06	2.70E+06	1.00E+09	5.20E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	120-12-7 56-55-3	NA NA	ID NLL	41,000 NLL	1.0E+9 (D) NLV	1.60E+09 NLV	1.60E+09 NLV	1.60E+09 NLV	2.90E+10 ID	7.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene (Q) Benzo(b)fluoranthene (Q)	205-99-2	NA NA	NLL	NLL	ID	ID	ID	ID	ID	80,000 80,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene (Q)	207-08-9	NA NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	8.00E+05	-	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330				
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	NLV	NLV	3.50E+08	7.00E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.90E+06	8,000	_	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	ID	ID	8.00E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	8,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	206-44-0	NA	5,500	7.30E+05	1.0E+9 (D)	8.90E+08	8.80E+08	8.80E+08	4.10E+09	1.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluorene	86-73-7	NA	5,300	8.90E+05	1.0E+9 (D)	1.50E+08	1.50E+08	1.50E+08	4.10E+09	8.70E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	80,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	91-57-6	NA	4,200	1.70E+05	4.90E+06	1.80E+06	1.80E+06	1.80E+06	2.90E+08	2.60E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	91-20-3	NA NA	730	1.00E+05	4.70E+05	3.50E+05	3.50E+05	3.50E+05	8.80E+07	5.20E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Phenanthrene Phyrono	85-01-8 129-00-0	NA NA	2,100 ID	1.60E+05 4.80E+05	5.10E+06 1.0E+9 (D)	1.90E+05 7.80E+08	1.90E+05 7.80E+08	1.90E+05 7.80E+08	2.90E+06 2.90E+09	5.20E+06 8.40E+07	-	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Volatiles, VOCs, ug/Kg	123-00-0	IVA	ID.	4.60L+03	1.01+3 (D)	7.80L+08	7.80L+08	7.80L+08	2.301+03	8.401+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acetone (I)	67-64-1	NA	34,000	42,000	5.4E+8 (C)	1.60E+08	1.60E+08	2.00E+08	1.70E+11	7.30E+07		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Benzene (I)	71-43-2	NA	4,000 (X)	100	8,400	45,000	99,000	2.30E+05	4.70E+08	8.4E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Bromobenzene (I)	108-86-1	NA	NA	1,500	5.80E+05	5.40E+05	5.40E+05	5.40E+05	2.40E+08	1.7E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromodichloromethane	75-27-4	NA	ID	1,600 (W)	6,400	31,000	31,000	57,000	1.10E+08	4.90E+05		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromoform	75-25-2	NA	ID	1,600 (W)	7.70E+05	3.10E+06	3.10E+06	3.10E+06	3.60E+09	3.8E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromomethane	74-83-9	NA	100	580	1,600	13,000	57,000	1.40E+05	1.50E+08	1.00E+06		< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2-Butanone (MEK) (I)	78-93-3	NA	44,000	7.60E+05	9.9E+7 (C)	3.50E+07	3.50E+07	3.60E+07	2.90E+10	7.0E+8 (C,DD)		< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750
n-Butylbenzene	104-51-8	NA	ID	4,600	ID	ID	ID	ID	8.80E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
sec-Butylbenzene	135-98-8	NA	ID	4,600	ID	ID	ID	ID	1.80E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
tert-Butylbenzene (I)	98-06-6	NA NA	ID	4,600	1D	1D	ID	1D	2.90E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide (I,R)	75-15-0	NA NA	ID 760 (V)	46,000	1.40E+05	1.60E+06	8.00E+06	1.90E+07	2.10E+10	4.3E+7 (C,DD)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon tetrachloride Chlorobenzene (I)	56-23-5 108-90-7	NA NA	760 (X) 500	100 2,000	990 2.20E+05	12,000 9.20E+05	34,000 1.10E+06	79,000 2.10E+06	1.70E+08 2.10E+09	4.4E+5 (C) 1.4E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chloroethane	75-00-3	NA NA	22,000 (X)	34,000	5.3E+6 (C)	3.60E+07	1.10E+06 1.20E+08	2.10E+06 2.80E+08	2.10E+09 2.90E+11	1.4E+7 (C) 1.2E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chloroform	67-66-3	NA NA	7,000	1,600 (W)	38,000	1.50E+05	3.40E+05	7.90E+05	1.60E+09	5.5E+6 (C)		< 250 < 50	< 250 < 50	< 250 < 50	< 250 < 50	< 250 < 50	< 250 < 50	< 250 < 50				
Chloromethane (I)	74-87-3	NA	ID	22,000	10,000	1.20E+05	1.00E+06	2.50E+06	2.60E+09	7.4E+6 (C)		< 250	< 250	< 250	< 50 < 250	< 50 < 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Chlorotoluene (I)	95-49-8	NA	ID	9,300	5.00E+05	1.50E+06	3.10E+06	6.40E+06	2.10E+09	1.5E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Dibromochloromethane	124-48-1	NA	ID	1,600 (W)	21,000	80,000	80,000	98,000	1.60E+08	5.00E+05		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2-Dibromo-3-Chloropropane	96-12-8	NA	ID	10 (M); 4.0	1,200	900	900	900	7.0E+5	20,000 (C)		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10



Table 1: Summary of Soil Analytical Data Flint Secondary Water Supply Project Flint, Michigan AKT Peerless Project No. 14535s

Guidesheet Number →	ļ	#10	#12	#21	#22	#23	#24	#25	#26	#27	Lab ID	10829-21	10829-23	10829-24	10829-25	10829-26	10829-28	10829-29	10829-30	10829-31	10829-32	10829-33
											Sample ID	B-17d	B-18s	B-18d	B-19s	B-19d	B-20s	B-20d	B-21s	B-21d	B-22s	B-22d
Parameters*	Chemical	Statewide	Groundwater	Non-Residentia		Non-Residential Infinite Source	Non-Residential	Non-Residential	Non-Residential	Non-Residential	Collection Date	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19	11/7/19
	Abstract Service	Default Background	Surface Water Interface	Drinking Water Protection	Soil Volatilization to Indoor Air	Volatile Soil	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact	Concetion Bate		11///13	11,7,15	11///13	11///13	11,7,13	11,7,13	11,7,13	11,7,13	11,7,13	11,7,13
*(Refer to detailed laboratory report for method reference data)	Number	Levels	Protection Criteria	Criteria	Inhalation Criteria	Inhalation Criteria (VSIC)	Thickness	Thickness	Criteria	Criteria	Depth	9.5-10'	1.5-2'	9.5-10'	1-1.5'	9.5-10'	1-1.5'	9.5-10'	1-1.5'	9.5-10'	2-2.5'	9.5-10'
Dibromomethane	74-95-3	NA NA	NA 200	4,600	ID	1D	1D	ID	ID	8.0E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2-Dichlorobenzene	95-50-1	NA NA	280	14,000	2.0E+7 (C)	4.60E+07	4.60E+07	5.50E+07	4.40E+10	6.3E+7 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,4-Dichlorobenzene	541-73-1 106-46-7	NA NA	680 360	480 1,700	48,000 1.00E+05	94,000 2.60E+05	94,000 2.60E+05	1.10E+05 3.40E+05	8.80E+07 5.70E+08	6.6E+5 (C) 1.90E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Dichlorodifluoromethane	75-71-8	NA NA	ID	2.70E+05	1.70E+06	6.30E+07	5.50E+08	1.40E+09	1.50E+12	1.7E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,1-Dichloroethane	75-34-3	NA NA	15,000	50,000	4.30E+05	2.50E+06	6.00E+06	1.40E+07	1.50E+10	8.7E+7 (C)		< 250 < 50										
1,2-Dichloroethane (I)	107-06-2	NA	7,200 (X)	100	11,000	21,000	33,000	74,000	1.50E+08	4.20E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethylene (I)	75-35-4	NA	2,600	140	330	3,700	15,000	37,000	7.80E+07	6.6E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
cis-1,2-Dichloroethylene	156-59-2	NA	12,000	1,400	41,000	2.10E+05	4.30E+05	1.00E+06	1.00E+09	8.0E+6 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
trans-1,2-Dichloroethylene	156-60-5	NA	30,000 (X)	2,000	43,000	3.30E+05	8.40E+05	2.00E+06	2.10E+09	1.2E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2-Dichloropropane (I)	78-87-5	NA	4,600 (X)	100	7,400	30,000	51,000	1.20E+05	1.20E+08	6.6E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,3-Dichloropropene	542-75-6	NA	180 (X)	700	5,400	60,000	2.00E+05	4.70E+05	5.90E+08	2.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylbenzene (I)	100-41-4	NA	360	1,500	4.6E+5 (C)	2.40E+06	3.10E+06	6.50E+06	1.30E+10	7.1E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	NA	110 (X)	20 (M); 1.0	3,600	5,800	5,800	9,800	1.80E+07	430		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hexachlorobutadiene	87-68-3	NA	91	72,000	7.1E+5 (C)	4.60E+05	4.60E+05	4.60E+05	1.80E+08	4.7E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	591-78-6	NA	ID	58,000	1.80E+06	1.30E+06	1.30E+06	1.50E+06	1.20E+09	1.0E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Isopropyl benzene	98-82-8	NA	3,200	2.60E+05	7.3E+5 (C)	2.00E+06	2.00E+06	3.00E+06	2.60E+09	8.0E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	ID	1.00E+05	6.9E+7 (C)	5.30E+07	5.30E+07	7.00E+07	6.00E+10	1.8E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	1.4E+5 (X)	800	1.8E+7 (C)	3.00E+07	4.10E+07	8.90E+07	8.80E+10	7.1E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Methylene chloride	75-09-2	NA	30,000 (X)	100	2.40E+05	7.00E+05	1.70E+06	4.00E+06	8.30E+09	5.8E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	91-57-6	NA	4,200	1.70E+05	4.90E+06	1.80E+06	1.80E+06	1.80E+06	2.90E+08	2.60E+07		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	91-20-3	NA	730	1.00E+05	4.70E+05	3.50E+05	3.50E+05	3.50E+05	8.80E+07	5.20E+07		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
n-Propylbenzene (I)	103-65-1	NA NA	1D	4,600	ID	1D	1D	ID 4 205 - 00	5.90E+08	8.00E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Styrene 1.1.1.2 Totrophloropthone	100-42-5 630-20-6	NA NA	2,100 (X)	2,700	1.3E+6 (C)	3.30E+06	3.30E+06	4.20E+06	6.90E+09	1.9E+6 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane	79-34-5	NA NA	1,600 (X)	6,400 700	33,000 23,000	1.20E+05 34,000	2.10E+05 34,000	3.30E+05 34,000	5.30E+08 6.80E+07	2.2E+6 (C) 2.40E+05		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Tetrachloroethylene	127-18-4	NA NA	1,000 (X)	100	21,000	2.1E+5	4.9E+5	1.1E+6	1.2E+9	9.3E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrahydrofuran	109-99-9	NA NA	2.2E+5 (X)	5,400	2,400,000	1.5E+7	6.7E+7	1.6E+8	1.7E+11	9.50E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Toluene (I)	108-88-3	NA NA	5.400	16,000	6.1E+5 (C)	3.30E+06	3.60E+07	3.60E+07	1.20E+10	1.6E+8 (C)		< 1000 < 100										
1,2,4-Trichlorobenzene	120-82-1	NA	5,900 (X)	4,200	1.8E+7 (C)	3.40E+07	3.40E+07	3.40E+07	1.10E+10	5.8E+6 (C,DD)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,1,1-Trichloroethane	71-55-6	NA	1,800	4,000	4.60E+05	4.50E+06	1.50E+07	3.10E+07	2.90E+10	1.0E+9 (C,D)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,2-Trichloroethane	79-00-5	NA	6,600 (X)	100	24,000	57,000	57,000	1.20E+05	2.50E+08	8.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trichloroethylene	79-01-6	NA	4,000 (X)	100	1,900	14,000	25,000	58,000	5.9E+7	6.6E+5 (C,DD)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trichlorofluoromethane	75-69-4	NA	NA	1.50E+05	5.1E+6(C)	1.10E+08	1.40E+11	1.40E+11	1.70E+12	2.6E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,3-Trichloropropane	96-18-4	NA	NA	2,400	7,500	11,000	11,000	12,000	8.80E+06	4.2E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,4-Trimethylbenzene (I)	95-63-6	NA	570	2,100	8.0E+6 (C)	2.50E+07	6.00E+08	6.00E+08	3.60E+10	1.0E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,100	1,800	4.8E+6 (C)	1.90E+07	4.60E+08	4.60E+08	3.60E+10	1.0E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl acetate (I)	108-05-4	NA	NA	36,000	1.50E+06	2.00E+06	2.70E+06	5.90E+06	5.90E+09	3.4E+7 (C,DD)		< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Vinyl chloride	75-01-4	NA	260 (X)	40	2,800	29,000	1.70E+05	4.20E+05	8.90E+08	34,000		< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Xylenes (I)	1330-20-7	NA	980	5,600	1.2E+7 (C)	5.40E+07	6.50E+07	1.30E+08	1.30E+11	1.0E+9 (C,D)		< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150
PCBs, ug/Kg			1		1																	
PCB, Aroclor 1016	12674-11-2	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS						
PCB, Aroclor 1221	11104-28-2	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS						
PCB, Aroclor 1232	11141-16-5	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS						
PCB, Aroclor 1242	53469-21-9	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS						
PCB, Arrollor 1248	12672-29-6	NA NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS						
PCB, Arcelor 1254	11097-69-1	NA NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS						
PCB, Aroclor 1260	11096-82-5	NA NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 100	< 100	NS	NS						
Total PCBs (J, T)	1336-36-3	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		NS	< 700	< 700	NS	NS						



## Table 1: Summary of Soil Analytical Data Flint Secondary Water Supply Project Flint, Michigan AKT Peerless Project No. 14535s

														10000.00							
Guidesheet Number →		#10	#12	#21	#22	#23	#24	#25	#26	#27	Lab ID	10829-34	10829-35	10829-36	10829-37	10829-38	10829-39	10829-40	10829-41	10829-42	10829-43
Parameters*	Chemical	Statewide	Groundwater	Non-Residential	Non-Residential	Non-Residential	Non-Residential	Non-Residential	Non-Residential	Non-Residential	Sample ID	B-23s	B-23d	B-24s	B-24d	B-25s	B-25d	B-26s	B-26d	B-27s	B-27d
*(Refer to detailed laboratory report for method reference data)	Abstract Service Number	Default Background Levels	Surface Water Interface Protection Criteria	Drinking Water Protection Criteria	Soil Volatilization to Indoor Air Inhalation Criteria	Volatile Soil Inhalation Criteria (VSIC)	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Collection Date  Depth	0.5-1'	6-6.5'	11/7/19	9.5-10'	11/7/19	11/7/19 6-6.5'	0.5-1'	9.5-10'	11/6/19	9.5-10'
Metals, ug/Kg																					
Arsenic (B)	7440-38-2	5,800	4,600	4,600	NLV	NLV	NLV	NLV	9.10E+05	37,000		< 100	254	< 100	336	636	1,630	< 100	< 100	1,010	1,270
Barium (B)	7440-39-3	75,000	(G)	1.30E+06	NLV	NLV	NLV	NLV	1.50E+08	1.30E+08		13,500	7,700	18,700	13,400	31,700	18,000	111,000	111,000	31,600	39,700
Cadmium (B)	7440-43-9	1,200	(G,X)	6,000	NLV	NLV	NLV	NLV	2.20E+06	2.10E+06		< 200	< 200	< 200	< 200	< 200	< 200	297	288	< 200	203
Chromium, Total (Cr VI criteria)	7440-47-3	18,000 (total)	3,300	30,000	NLV	NLV	NLV	NLV	2.40E+05	9.20E+06		3,390	< 2000	3,000	2,410	5,440	3,350	10,600	9,230	5,100	6,400
Copper (B)	7440-50-8	32,000	(G)	5.80E+06	NLV	NLV	NLV	NLV	5.90E+07	7.30E+07		2,990	2,240	1,550	2,170	7,490	4,270	8,080	6,450	4,060	5,100
Lead (B)	7439-92-1	21,000	(G,X)	7.00E+05	NLV	NLV	NLV	NLV	4.40E+07	9.0E+5 (DD)		3,910	2,210	4,790	4,790	5,780	4,340	9,320	19,300	7,660	9,610
Mercury, Total (B, Z)	Varies	130	50 (M); 1.2	1,700	89,000	62,000	62,000	62,000	8.80E+06	5.80E+05		264	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Selenium (B)	7782-49-2	410	400	4,000	NLV	NLV	NLV	NLV	5.90E+07	9.60E+06		< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Silver (B)	7440-22-4	1,000	100 (M); 27	13,000	NLV	NLV	NLV	NLV	2.90E+06	9.00E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Zinc (B)	7440-66-6	47,000	(G)	5.00E+06	NLV	NLV	NLV	NLV	ID	6.30E+08		11,400	11,000	11,800	8,200	25,000	18,600	22,200	23,400	17,200	21,600
Semivolatiles, PNAs, ug/Kg			_																		
Acenaphthene	83-32-9	NA 	8,700	8.80E+05	3.50E+08	9.70E+07	9.70E+07	9.70E+07	6.20E+09	1.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acenaphthylene	208-96-8	NA	ID	17,000	3.00E+06	2.70E+06	2.70E+06	2.70E+06	1.00E+09	5.20E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	120-12-7	NA	ID	41,000	1.0E+9 (D)	1.60E+09	1.60E+09	1.60E+09	2.90E+10	7.30E+08		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene (Q)	56-55-3	NA 	NLL	NLL	NLV	NLV	NLV	NLV	ID	80,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene (Q)	205-99-2	NA 	NLL	NLL	ID	ID	ID	ID	ID	80,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	8.00E+05		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	191-24-2	NA 	NLL	NLL	NLV	NLV	NLV	NLV	3.50E+08	7.00E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene (Q)	50-32-8	NA NA	NLL	NLL	NLV	NLV	NLV	NLV	1.90E+06	8,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene (Q)	218-01-9	NA NA	NLL	NLL	ID	ID	ID	ID	ID	8.00E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene (Q)	53-70-3	NA NA	NLL 5.500	NLL 7.205.05	NLV	NLV	NLV	NLV	ID	8,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	206-44-0 86-73-7	NA NA	5,500	7.30E+05 8.90E+05	1.0E+9 (D) 1.0E+9 (D)	8.90E+08 1.50E+08	8.80E+08 1.50E+08	8.80E+08 1.50E+08	4.10E+09 4.10E+09	1.30E+08 8.70E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluorene Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA NA	5,300 NLL	8.90E+03	NLV	NLV	NLV	NLV	4.10E+09	80,000		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	91-57-6	NA NA	4,200	1.70E+05	4.90E+06	1.80E+06	1.80E+06	1.80E+06	2.90E+08	2.60E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	91-20-3	NA NA	730	1.70E+05	4.70E+05	3.50E+05	3.50E+05	3.50E+05	8.80E+07	5.20E+07		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Phenanthrene	85-01-8	NA NA	2,100	1.60E+05	5.10E+06	1.90E+05	1.90E+05	1.90E+05	2.90E+06	5.20E+06		< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	129-00-0	NA NA	ID	4.80E+05	1.0E+9 (D)	7.80E+08	7.80E+08	7.80E+08	2.90E+09	8.40E+07		< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330	< 330 < 330					
Volatiles, VOCs, ug/Kg										2.102.07		< 55U	< 33U	< 550	< 33U	< 330	< 55U	< 33U	< 55U	< 55U	< 550
Acetone (I)	67-64-1	NA	34,000	42,000	5.4E+8 (C)	1.60E+08	1.60E+08	2.00E+08	1.70E+11	7.30E+07		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Benzene (I)	71-43-2	NA NA	4,000 (X)	100	8,400	45,000	99,000	2.30E+05	4.70E+08	8.4E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Bromobenzene (I)	108-86-1	NA	NA	1,500	5.80E+05	5.40E+05	5.40E+05	5.40E+05	2.40E+08	1.7E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromodichloromethane	75-27-4	NA	ID	1,600 (W)	6,400	31,000	31,000	57,000	1.10E+08	4.90E+05		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromoform	75-25-2	NA	ID	1,600 (W)	7.70E+05	3.10E+06	3.10E+06	3.10E+06	3.60E+09	3.8E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromomethane	74-83-9	NA	100	580	1,600	13,000	57,000	1.40E+05	1.50E+08	1.00E+06		< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2-Butanone (MEK) (I)	78-93-3	NA	44,000	7.60E+05	9.9E+7 (C)	3.50E+07	3.50E+07	3.60E+07	2.90E+10	7.0E+8 (C,DD)		< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750	< 750
n-Butylbenzene	104-51-8	NA	ID	4,600	ID	ID	ID	ID	8.80E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
sec-Butylbenzene	135-98-8	NA	ID	4,600	ID	ID	ID	ID	1.80E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
tert-Butylbenzene (I)	98-06-6	NA	ID	4,600	ID	ID	ID	ID	2.90E+08	8.00E+06		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide (I,R)	75-15-0	NA	ID	46,000	1.40E+05	1.60E+06	8.00E+06	1.90E+07	2.10E+10	4.3E+7 (C,DD)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon tetrachloride	56-23-5	NA	760 (X)	100	990	12,000	34,000	79,000	1.70E+08	4.4E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chlorobenzene (I)	108-90-7	NA	500	2,000	2.20E+05	9.20E+05	1.10E+06	2.10E+06	2.10E+09	1.4E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chloroethane	75-00-3	NA	22,000 (X)	34,000	5.3E+6 (C)	3.60E+07	1.20E+08	2.80E+08	2.90E+11	1.2E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Chloroform	67-66-3	NA	7,000	1,600 (W)	38,000	1.50E+05	3.40E+05	7.90E+05	1.60E+09	5.5E+6 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chloromethane (I)	74-87-3	NA	ID	22,000	10,000	1.20E+05	1.00E+06	2.50E+06	2.60E+09	7.4E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Chlorotoluene (I)	95-49-8	NA	ID	9,300	5.00E+05	1.50E+06	3.10E+06	6.40E+06	2.10E+09	1.5E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Dibromochloromethane	124-48-1	NA	ID	1,600 (W)	21,000	80,000	80,000	98,000	1.60E+08	5.00E+05		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2-Dibromo-3-Chloropropane	96-12-8	NA	ID	10 (M); 4.0	1,200	900	900	900	7.0E+5	20,000 (C)		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10



## Table 1: Summary of Soil Analytical Data Flint Secondary Water Supply Project Flint, Michigan AKT Peerless Project No. 14535s

Guidesheet Number →	1	#10	#12	#21	#22	#23	#24	#25	#26	#27	Lab ID	10829-34	10829-35	10829-36	10829-37	10829-38	10829-39	10829-40	10829-41	10829-42	10829-43
Parameters*	Chemical	Statewide	Groundwater	Non-Residential	Non-Residential	Non-Residential	Non-Residential	Non-Residential	Non-Residential	Non Bosidontial	Sample ID	B-23s	B-23d	B-24s	B-24d	B-25s	B-25d	B-26s	B-26d	B-27s	B-27d
*(Refer to detailed laboratory report for method reference data)	Abstract Service Number	Default Background Levels	Surface Water Interface Protection Criteria	Drinking Water Protection Criteria	Soil Volatilization to Indoor Air Inhalation Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation Criteria	Non-Residential Direct Contact Criteria	Collection Date  Depth	0.5-1'	6-6.5'	11/7/19	9.5-10'	11/7/19	6-6.5'	0.5-1'	9.5-10'	11/6/19	9.5-10'
Dibromomethane	74-95-3	NA	NA	4,600	ID	ID	ID	ID	ID	8.0E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2-Dichlorobenzene	95-50-1	NA	280	14,000	2.0E+7 (C)	4.60E+07	4.60E+07	5.50E+07	4.40E+10	6.3E+7 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3-Dichlorobenzene	541-73-1	NA 	680	480	48,000	94,000	94,000	1.10E+05	8.80E+07	6.6E+5 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,4-Dichlorobenzene	106-46-7	NA NA	360	1,700	1.00E+05	2.60E+05	2.60E+05	3.40E+05	5.70E+08	1.90E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Dichlorodifluoromethane 1,1-Dichloroethane	75-71-8 75-34-3	NA NA	15,000	2.70E+05 50,000	1.70E+06 4.30E+05	6.30E+07 2.50E+06	5.50E+08 6.00E+06	1.40E+09 1.40E+07	1.50E+12	1.7E+8 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2-Dichloroethane (I)	107-06-2	NA NA	7,200 (X)	100	11,000	21,000	33,000	74,000	1.50E+10 1.50E+08	8.7E+7 (C) 4.20E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethylene (I)	75-35-4	NA NA	2,600	140	330	3,700	15,000	37,000	7.80E+07	6.6E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
cis-1,2-Dichloroethylene	156-59-2	NA NA	12,000	1,400	41,000	2.10E+05	4.30E+05	1.00E+06	1.00E+09	8.0E+6 (C)		< 50 < 50	< 50 < 50	< 50 < 50	< 50 < 50						
trans-1,2-Dichloroethylene	156-60-5	NA NA	30,000 (X)	2,000	43,000	3.30E+05	8.40E+05	2.00E+06	2.10E+09	1.2E+7 (C)		< 50 < 50	< 50	< 50 < 50	< 50	< 50 < 50	< 50 < 50	< 50 < 50	< 50 < 50	< 50 < 50	< 50 < 50
1,2-Dichloropropane (I)	78-87-5	NA NA	4,600 (X)	100	7,400	30,000	51,000	1.20E+05	1.20E+08	6.6E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,3-Dichloropropene	542-75-6	NA	180 (X)	700	5,400	60,000	2.00E+05	4.70E+05	5.90E+08	2.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylbenzene (I)	100-41-4	NA	360	1,500	4.6E+5 (C)	2.40E+06	3.10E+06	6.50E+06	1.30E+10	7.1E+7 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	NA	110 (X)	20 (M); 1.0	3,600	5,800	5,800	9,800	1.80E+07	430		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hexachlorobutadiene	87-68-3	NA	91	72,000	7.1E+5 (C)	4.60E+05	4.60E+05	4.60E+05	1.80E+08	4.7E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	591-78-6	NA	ID	58,000	1.80E+06	1.30E+06	1.30E+06	1.50E+06	1.20E+09	1.0E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Isopropyl benzene	98-82-8	NA	3,200	2.60E+05	7.3E+5 (C)	2.00E+06	2.00E+06	3.00E+06	2.60E+09	8.0E+7 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	ID	1.00E+05	6.9E+7 (C)	5.30E+07	5.30E+07	7.00E+07	6.00E+10	1.8E+8 (C)		< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	1.4E+5 (X)	800	1.8E+7 (C)	3.00E+07	4.10E+07	8.90E+07	8.80E+10	7.1E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Methylene chloride	75-09-2	NA	30,000 (X)	100	2.40E+05	7.00E+05	1.70E+06	4.00E+06	8.30E+09	5.8E+6 (C)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	91-57-6	NA	4,200	1.70E+05	4.90E+06	1.80E+06	1.80E+06	1.80E+06	2.90E+08	2.60E+07		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	91-20-3	NA	730	1.00E+05	4.70E+05	3.50E+05	3.50E+05	3.50E+05	8.80E+07	5.20E+07		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
n-Propylbenzene (I)	103-65-1	NA	ID	4,600	ID	ID	ID	ID	5.90E+08	8.00E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Styrene	100-42-5	NA	2,100 (X)	2,700	1.3E+6 (C)	3.30E+06	3.30E+06	4.20E+06	6.90E+09	1.9E+6 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1,2-Tetrachloroethane	630-20-6	NA	ID	6,400	33,000	1.20E+05	2.10E+05	3.30E+05	5.30E+08	2.2E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,1,2,2-Tetrachloroethane	79-34-5	NA 	1,600 (X)	700	23,000	34,000	34,000	34,000	6.80E+07	2.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachloroethylene	127-18-4	NA NA	1,200 (X)	100	21,000	2.1E+5	4.9E+5	1.1E+6	1.2E+9	9.3E+5 (C)		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrahydrofuran	109-99-9 108-88-3	NA NA	2.2E+5 (X)	5,400	2,400,000	1.5E+7 3.30E+06	6.7E+7 3.60E+07	1.6E+8 3.60E+07	1.7E+11 1.20E+10	9.50E+06		< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Toluene (I)  1,2,4-Trichlorobenzene			5,400	16,000	6.1E+5 (C)	3.40E+06	3.40E+07	3.40E+07		1.6E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,1,1-Trichloroethane	120-82-1 71-55-6	NA NA	5,900 (X) 1,800	4,200 4,000	1.8E+7 (C) 4.60E+05	4.50E+06	1.50E+07	3.40E+07 3.10E+07	1.10E+10 2.90E+10	5.8E+6 (C,DD) 1.0E+9 (C,D)		< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,1,2-Trichloroethane	79-00-5	NA NA	6,600 (X)	100	24,000	57,000	57,000	1.20E+05	2.50E+10 2.50E+08	8.40E+05		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trichloroethylene	79-00-3	NA NA	4,000 (X)	100	1,900	14,000	25,000	58,000	5.9E+7	6.6E+5 (C,DD)		< 50 < 50	< 50	< 50 < 50	< 50	< 50 < 50					
Trichlorofluoromethane	75-69-4	NA NA	1,000 (X) NA	1.50E+05	5.1E+6(C)	1.10E+08	1.40E+11	1.40E+11	1.70E+12	2.6E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 50 < 100	< 100	< 50 < 100	< 100
1,2,3-Trichloropropane	96-18-4	NA NA	NA NA	2,400	7,500	11,000	11,000	12,000	8.80E+06	4.2E+6 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,4-Trimethylbenzene (I)	95-63-6	NA	570	2,100	8.0E+6 (C)	2.50E+07	6.00E+08	6.00E+08	3.60E+10	1.0E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,100	1,800	4.8E+6 (C)	1.90E+07	4.60E+08	4.60E+08	3.60E+10	1.0E+8 (C)		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl acetate (I)	108-05-4	NA	NA	36,000	1.50E+06	2.00E+06	2.70E+06	5.90E+06	5.90E+09	3.4E+7 (C,DD)		< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Vinyl chloride	75-01-4	NA	260 (X)	40	2,800	29,000	1.70E+05	4.20E+05	8.90E+08	34,000		< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Xylenes (I)	1330-20-7	NA	980	5,600	1.2E+7 (C)	5.40E+07	6.50E+07	1.30E+08	1.30E+11	1.0E+9 (C,D)		< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150
PCBs, ug/Kg																					
PCB, Aroclor 1016	12674-11-2	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		< 100	< 100	NS	NS	< 100	< 100	NS	NS	NS	NS
PCB, Aroclor 1221	11104-28-2	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		< 100	< 100	NS	NS	< 100	< 100	NS	NS	NS	NS
PCB, Aroclor 1232	11141-16-5	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		< 100	< 100	NS	NS	< 100	< 100	NS	NS	NS	NS
PCB, Aroclor 1242	53469-21-9	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		< 100	< 100	NS	NS	< 100	< 100	NS	NS	NS	NS
PCB, Aroclor 1248	12672-29-6	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		< 100	< 100	NS	NS	< 100	< 100	NS	NS	NS	NS
PCB, Aroclor 1254	11097-69-1	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		< 100	< 100	NS	NS	< 100	< 100	NS	NS	NS	NS
PCB, Aroclor 1260	11096-82-5	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		< 100	< 100	NS	NS	< 100	< 100	NS	NS	NS	NS
Total PCBs (J, T)	1336-36-3	NA	NLL	NLL	1.60E+07	8.10E+05	2.80E+07	2.80E+07	6.50E+06	(T)		< 700	< 700	NS	NS	< 700	< 700	NS	NS	NS	NS



## Table 2: Summary of Groundwater Anaytical Data Flint Secondary Water Supply Project Flint, Michigan AKT Peerless Project No. 14535s

	1			-												
							Lab ID	10829-3	10822-17	10822-18	10822-19	10829-8	10829-15	10829-22	10829-27	10829-44
Guidesheet Number →		#2	#3	#5	#7	#8										
Parameters*				Non-Residential			Sample Location	B-1/ TMW	B-2 TMW	B-4 TMW	B-7 TMW	B-11/ TMW	B-14/ TMW	B-17/ TMW	B-19/ TMW	B-27/ TMW
	Chemical Abstract	Non-Residential Drinking Water	Groundwater Surface Water Interface	Groundwater Volatilization to	Water	Flammability and Explosivity	Collection Date	11/6/19	11/5/19	11/5/19	11/5/19	11/6/19	11/6/19	11/7/19	11/7/19	11/6/19
*(Refer to detailed laboratory report for method reference data)	Service Number	Criteria	Criteria	Indoor Air Inhalation Criteria	Solubility	Screening Level	Depth	5-10'	0-5'	0-5'	5-10'	0-5'	0-5'	3-8'	5-10'	0-5'
Metals, ug/L																
Arsenic	7440-38-2	10 (A)	10	NLV	NA	ID		< 5	NS	< 5	< 5	< 5	< 5	NS	NS	NS
Barium (B)	7440-39-3	2,000 (A)	(G)	NLV	NA	ID		< 100	NS	< 100	< 100	< 100	< 100	NS	NS	NS
Cadmium (B)	7440-43-9	5.0 (A)	(G,X)	NLV	NA	ID		< 1	NS	< 1	<1	< 1	< 1	NS	NS	NS
Chromium, Total (Cr VI criteria)	7440-47-3	100 (A)	11	NLV	NA	ID		< 5	NS	< 5	< 5	< 5	< 5	NS	NS	NS
Copper (B)	7440-50-8	1,000 (E)	(G)	NLV	NA	ID		< 10	NS	< 4	< 4	< 10	< 10	NS	NS	NS
Lead (B)	7439-92-1	4.0 (L)	(G,X)	NLV	NA	ID		< 9	NS	< 3	< 3	< 9	< 9	NS	NS	NS
Mercury, Total (B, Z)	Varies	2.0 (A)	0.0013	56 (S)	56	ID		< 0.2	NS	< 0.2	< 0.2	< 0.2	< 0.2	NS	NS	NS
Selenium (B)	7782-49-2	50 (A)	5.0	NLV	NA	ID		< 5	NS	< 5	< 5	< 5	< 5	NS	NS	NS
Silver (B)	7440-22-4	98	0.2 (M); 0.06	NLV	NA	ID		< 0.2	NS	< 0.2	< 0.2	< 0.2	< 0.2	NS	NS	NS
Zinc (B)	7440-66-6	5,000 (E)	(G)	NLV	NA	ID		< 50	NS	< 50	< 50	< 50	< 50	NS	NS	NS
Semivolatiles, PNAs, ug/L																
Acenaphthene	83-32-9	3,800	38	4,200 (S)	4,240	ID		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acenaphthylene	208-96-8	150	ID	3,900 (S)	3,930	ID		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Anthracene	120-12-7	43 (S)	ID	43 (S)	43.4	ID		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzo(a)anthracene (Q)	56-55-3	8.5	ID	NLV	9.4	ID		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene (Q)	205-99-2	1.5 (S,AA)	ID	ID	1.5	ID		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene (Q)	207-08-9	1.0 (M); 0.8 (S)	NA	NLV	0.8	ID		< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	191-24-2	1.0 (M); 0.26 (S)	ID	NLV	0.26	ID		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene (Q)	50-32-8	5.0 (A)	ID	NLV	1.62	ID		< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1
Chrysene (Q)	218-01-9	1.6 (S)	ID	ID	1.6	ID		< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene (Q)	53-70-3	2.0 (M); 0.85	ID	NLV	2.49	ID		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Fluoranthene	206-44-0	210 (S)	1.6	210 (S)	206	ID		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	86-73-7	2,000 (S)	12	2,000 (S)	1,980	ID		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	2.0 (M); 0.022 (S)	ID	NLV	0.022	ID		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Methylnaphthalene	91-57-6	750	19	25,000 (S)	24,600	ID		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	91-20-3	1,500	11	31,000 (S)	31,000	NA		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Phenanthrene	85-01-8	150	2.0 (M); 1.7	1,000 (S)	1,000	ID		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Pyrene	129-00-0	140 (S)	ID	140 (S)	135	ID		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Volatiles, VOCs, ug/L																i
Acetone (I)	67-64-1	2,100	1,700	1.0E+9 (D,S)	1.00E+09	1.50E+07		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Benzene (I)	71-43-2	5.0 (A)	200 (X)	35,000	1.75E+06	68,000		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene (I)	108-86-1	50	NA	3.90E+05	4.13E+05	ID		<1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	75-27-4	80 (A,W)	ID	37,000	6.74E+06	ID		<1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	80 (A,W)	ID	3.1E+6 (S)	3.10E+06	ID		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	74-83-9	29	5.0 (M); 4.2	9,000	1.45E+07	ID		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone (MEK) (I)	78-93-3	38,000	2,200	2.4E+8 (S)	2.40E+08	ID		< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
n-Butylbenzene	104-51-8	230	ID	ID	NA	ID		< 1	<1	< 1	< 1	<1	< 1	<1	< 1	< 1
sec-Butylbenzene	135-98-8	230	ID	ID	NA	ID		< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1
tert-Butylbenzene (I)	98-06-6	230	ID	ID	NA	ID		< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1
Carbon disulfide (I,R)	75-15-0	2,300	ID	5.50E+05	1.19E+06	13,000		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	56-23-5	5.0 (A)	38 (X)	2,400	7.93E+05	ID		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1



## Table 2: Summary of Groundwater Anaytical Data Flint Secondary Water Supply Project Flint, Michigan AKT Peerless Project No. 14535s

						I	i r									
Guidesheet Number →		#2	#3	#5	#7	#8	Lab ID	10829-3	10822-17	10822-18	10822-19	10829-8	10829-15	10829-22	10829-27	10829-44
Parameters*							Sample Location	B-1/ TMW	B-2 TMW	B-4 TMW	B-7 TMW	B-11/ TMW	B-14/ TMW	B-17/ TMW	B-19/ TMW	B-27/ TMW
	Chemical Abstract	Non-Residential Drinking Water	Groundwater Surface Water Interface	Non-Residential Groundwater Volatilization to	Water	Flammability and Explosivity	Collection Date	11/6/19	11/5/19	11/5/19	11/5/19	11/6/19	11/6/19	11/7/19	11/7/19	11/6/19
*(Refer to detailed laboratory report for method reference data)	Service Number	Criteria	Criteria	Indoor Air Inhalation Criteria	Solubility	Screening Level	Depth	5-10'	0-5'	0-5'	5-10'	0-5'	0-5'	3-8'	5-10'	0-5'
Chlorobenzene (I)	108-90-7	100 (A)	25	4.7E+5 (S)	4.72E+05	1.60E+05		< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1
Chloroethane	75-00-3	1,700	1,100 (X)	5.7E+6 (S)	5.74E+06	1.10E+05		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	67-66-3	80 (A,W)	350	1.80E+05	7.92E+06	ID		< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1
Chloromethane (I)	74-87-3	1,100	ID	45,000	6.34E+06	36,000		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene (I)	95-49-8	420	ID	3.7E+5 (S)	3.73E+05	ID		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	124-48-1	80 (A,W)	ID	1.10E+05	2.60E+06	ID		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-Chloropropane	96-12-8	0.2 (A)	ID	1,200 (S)	1,230	NA		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibromomethane	74-95-3	230	NA	ID	1.10E+07	ID	Ī	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	95-50-1	600 (A)	13	1.6E+5 (S)	1.56E+05	NA	Ī	< 1	<1	< 1	<1	< 1	<1	< 1	< 1	< 1
1,3-Dichlorobenzene	541-73-1	19	28	41,000	1.11E+05	ID	Ī	< 1	<1	< 1	<1	< 1	<1	< 1	< 1	< 1
1,4-Dichlorobenzene	106-46-7	75 (A)	17	74,000 (S)	73,800	NA	Ī	< 1	<1	< 1	<1	< 1	<1	< 1	< 1	< 1
Dichlorodifluoromethane	75-71-8	4,800	ID	3.0E+5 (S)	3.00E+05	ID	Ī	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	75-34-3	2,500	740	2.30E+06	5.06E+06	3.80E+05	Ī	< 1	<1	< 1	<1	<1	<1	< 1	< 1	< 1
1,2-Dichloroethane (I)	107-06-2	5.0 (A)	360 (X)	59,000	8.52E+06	2.50E+06	Ī	< 1	<1	< 1	<1	< 1	<1	< 1	< 1	< 1
1,1-Dichloroethylene (I)	75-35-4	7.0 (A)	130	1,300	2.25E+06	97,000	Ī	< 1	<1	< 1	<1	<1	<1	< 1	< 1	< 1
cis-1,2-Dichloroethylene	156-59-2	70 (A)	620	2.10E+05	3.50E+06	5.30E+05	Ī	< 1	<1	< 1	<1	<1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethylene	156-60-5	100 (A)	1,500 (X)	2.00E+05	6.30E+06	2.30E+05	ľ	< 1	<1	< 1	<1	<1	<1	< 1	< 1	<1
1,2-Dichloropropane (I)	78-87-5	5.0 (A)	230 (X)	36,000	2.80E+06	5.50E+05	Ī	< 1	<1	< 1	<1	<1	< 1	< 1	< 1	< 1
1,3-Dichloropropene	542-75-6	35	9.0 (X)	26,000	2.80E+06	1.30E+05	Ī	< 1	<1	< 1	<1	<1	<1	< 1	< 1	< 1
Ethylbenzene (I)	100-41-4	74 (E)	18	1.7E+5 (S)	1.69E+05	43,000	ľ	< 1	<1	< 1	<1	<1	<1	< 1	< 1	<1
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.05 (A)	5.7 (X)	15,000	4.20E+06	ID	ľ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobutadiene	87-68-3	42	0.053	3,200 (S)	3,230	ID	ľ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Hexanone	591-78-6	2,900	ID	8.70E+06	1.60E+07	NA	ľ	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Isopropyl benzene	98-82-8	2,300	28	56,000 (S)	56,000	29,000	Ī	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	5,200	ID	2.0E+7 (S)	2.00E+07	ID	Ī	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Methyl-tert-butyl ether (MTBE)	1634-04-4	40 (E)	7,100 (X)	4.7E+7 (S)	4.68E+07	ID	Ī	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	75-09-2	5.0 (A)	1,500 (X)	1.40E+06	1.70E+07	ID	Ī	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Methylnaphthalene	91-57-6	750	19	25,000 (S)	24,600	ID	Ī	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	91-20-3	1,500	11	31,000 (S)	31,000	NA	Ī	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene (I)	103-65-1	230	ID	ID	NA	ID	Ī	< 1	<1	< 1	<1	< 1	<1	< 1	< 1	< 1
Styrene	100-42-5	100 (A)	80 (X)	3.1E+5 (S)	3.10E+05	1.40E+05	-	< 1	<1	< 1	< 1	<1	< 1	< 1	< 1	<1
1,1,1,2-Tetrachloroethane	630-20-6	320	ID	96,000	1.10E+06	ID	Ī	< 1	<1	< 1	<1	<1	<1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	35	78 (X)	77,000	2.97E+06	ID	-	< 1	<1	< 1	<1	<1	<1	< 1	< 1	<1
Tetrachloroethylene	127-18-4	5.0 (A)	60 (X)	1.70E+05	2.00E+05	ID	Ī	< 1	<1	< 1	<1	<1	<1	< 1	< 1	<1
, Tetrahydrofuran	109-99-9	270	11,000 (X)	1.6E+07	1.0E+09	60,000		< 90	< 90	< 90	< 90	< 90	< 90	< 90	< 90	< 90
Toluene (I)	108-88-3	790 (E)	270	5.3E+5 (S)	5.26E+05	61,000		<1	<1	< 1	<1	<1	<1	<1	< 1	<1
1,2,4-Trichlorobenzene	120-82-1	70 (A)	99 (X)	3.0E+5 (S)	3.00E+05	NA		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane	71-55-6	200 (A)	89	1.3E+6 (S)	1.33E+06	ID		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	79-00-5	5.0 (A)	330 (X)	1.10E+05	4.42E+06	NA		<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	79-01-6	5.0 (A)	200 (X)	4,900	1.10E+06	ID		<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	75-69-4	7,300	NA	1.1E+6 (S)	1.10E+06	ID		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	96-18-4	120	NA NA	18,000	1.90E+06	NA NA										
1,2,4-Trimethylbenzene (I)	95-63-6	63 (E)	17	56,000 (S)	55,890	56,000 (S)		<1	<1	< 1	<1	<1	<1	<1	< 1	<1
1,2,7 mineary identified (i)	JJ-0J <b>-</b> 0	03 (L)	1,	50,000 (3)	JJ,0JU	30,000 (3)		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1



## Table 2: Summary of Groundwater Anaytical Data Flint Secondary Water Supply Project Flint, Michigan AKT Peerless Project No. 14535s

							Lab ID	10829-3	10822-17	10822-18	10822-19	10829-8	10829-15	10829-22	10829-27	10829-44
Guidesheet Number →		#2	#3	#5	#7	#8										
Parameters*				Non-Residential			Sample Location	B-1/ TMW	B-2 TMW	B-4 TMW	B-7 TMW	B-11/ TMW	B-14/ TMW	B-17/ TMW	B-19/ TMW	B-27/ TMW
	Chemical Abstract Service	Non-Residential Drinking Water	Groundwater Surface Water Interface		Water Solubility	Flammability and Explosivity	Collection Date	11/6/19	11/5/19	11/5/19	11/5/19	11/6/19	11/6/19	11/7/19	11/7/19	11/6/19
*(Refer to detailed laboratory report for method reference data)	Number	Criteria	Criteria	Indoor Air Inhalation Criteria	Solublity	Screening Level	Depth	5-10'	0-5'	0-5'	5-10'	0-5'	0-5'	3-8'	5-10'	0-5'
1,3,5-Trimethylbenzene (I)	108-67-8	72 (E)	45	61,000 (S)	61,150	ID		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl acetate (I)	108-05-4	1,800	NA	8.90E+06	2.00E+07	1.80E+06		< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl chloride	75-01-4	2.0 (A)	13 (X)	13,000	2.76E+06	33,000		<1	< 1	< 1	<1	< 1	< 1	< 1	<1	<1
Xylenes (I)	1330-20-7	280 (E)	49	1.9E+5 (S)	1.86E+05	70,000		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3



#### R 299.49 FOOTNOTES

#### (as last revised by MDEQ on December 30, 2013) FOR GENERIC CLEANLIP CRITERIA TARLES

Cleanup Criteria Requirements for Response Activity (formerly the Part 201 Generic Cleanup Criteria and Screening Levels)

- Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds (R)
- The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (C<sub>sat</sub>). The person proposing or implementing response activity shall document whether (C) additional response activity is required to control free-phase liquids or NAPL to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development of a site-specific C<sub>sat</sub> or methods presented in R 299.22, R 299.24(5), and R 299.26(8) may be conducted for the relevant exposure pathways
- Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb). (D)
- Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act. 1994 PA 451. as amended (NREPA). A notice of aesthetic impact (E) may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value (as provided in the table in Footnote (E) in R 299.491.
- (F) Criterion is based on adverse impacts to plant life and phytotoxicity.
- Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be (G) calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO<sub>3</sub>/L, use 400 mg CaCO<sub>3</sub>/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote. [See table in Footnote (G) in R 299 491
- Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
- Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules. (1)
- Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria (J)
- Hazardous substance may be flammable or explosive, or both.
- Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific (L) rules. The generic residential drinking water criterion of 4 ug/L is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 ug/L, may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a sitespecific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 ug/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable concentrations of site-specific soil and drinking water concentrations are presented in the [table in Footnote (L) in R 299.49].
- Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit. (M)
- The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the
- nitrate drinking water protection criterion of 2.0E+5 ug/kg.

  The concentration of all polychlorinated and polybrominated dibenzodioxin and dibenzofuran isomers present at a facility, expressed as an equivalent concentration of 2,3,7,8-tetrachlorodibenzo-p-dioxin (0) based upon their relative potency, shall be added together and compared to the criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin. The generic cleanup criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin are not calculated according to the algorithms presented in R 299.14 to R 299.26. The generic cleanup criteria are being held at the values that the DEQ has used since August 1998, in recognition of the fact that national efforts to reassess risks posed by dioxin are not yet complete. Until these studies are complete, it is premature to select a revised slope factor and/or reference dose for calculation of generic cleanup
- (P) Amenable cvanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with all groundwater criteria. Total cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with soil criteria. Nonresidential direct contact criteria may not be protective of the potential for release of hydrogen cyanide gas. Additional land or resource use restrictions may be necessary to protect for the acute inhalation concerns associated with hydrogen cvanide gas.
- (0)
- Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.

  Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001), which is adopted by reference in these rules. (R)
- Criterion defaults to the hazardous substance-specific water solubility limit.
- (T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and subpart G of 40 C.F.R. \$761 (July 1, 2001) are adopted by reference in these rules. Alternatives to compliance with the TSCA standards listed below are possible under 40 C.F.R. \$761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable. [See table in Footnote (T) in R 299.49].
- Hazardous substance may exhibit the characteristic of corrosivity as defined in 40 C.F.R. §261.22 (revised as of July 1, 2001), which is adopted by reference in these rules. (U)
- Criterion is the aesthetic drinking water value as required by Section 20120(a)(5) of the NREPA. Concentrations up to 200 ug/L may be acceptable, and still allow for drinking water use, as part of a site-specific (V) cleanup under Section 20120a(2) and 20120b of the NREPA.
- Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be (W) added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.
- The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting (X) waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the [table in Footnote (X) in R 299.49], except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in [the table in Footnote (G) in R 299.49]. Soil protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.
- Source size modifiers shown in the [table in Footnote (Y) in R 299.49] shall be used to determine soil inhalation criteria for ambient air when the source size is not one-half acre. The modifier shall be multiplied (Y) by the generic soil inhalation criteria shown in the table of generic cleanup criteria to determine the applicable criterion. See Footnote (C) [in R 299.49].
- (Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury
- Use 10,000 ug/L where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000 ug/L for all other uses
- The state drinking water standard for asbestos (fibers greater than 10 micrometers in length) is in units of a million fibers per liter of water (MFL). Soil concentrations of asbestos are determined by polarized light microscopy.
- Groundwater: The generic GSI criteria are based on the toxicity of unionized ammonia (NH<sub>3</sub>); the criteria are 29 ug/L and 53 ug/L for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH3 in the surface water. This percent NH3 is a function of the pH and temperature of the receiving surface water and can be estimated using the [table in Footnote (CC) in R 299.49], taken from Emerson, et al., (Journal of the Fisheries Research Board of Canada, Volume 32(12):2382, 1975). The generic approach for estimating NH3 assumes a default pH of 8 and default temperatures of 68 °F and 85 °F for cold water and warm water surface water, respectively. The resulting NH3 is 3.8 percent and 7.2 percent for cold water and warm water, respectively. This default percentage shall be multiplied by the total ammonia-nitrogen (NH<sub>3</sub>-N) concentration in the groundwater and the resulting NH<sub>3</sub> concentration compared to the applicable GSI criterion. As an alternative, the maximum pH and temperature data from the specific receiving surface water can be used to estimate, from the [table in Footnote (CC) in R 299.49], a lower percent unionized ammonia concentration for comparison to the generic GSI.
- Soil: The generic soil GSI protection criteria for unionized ammonia are 580 ug/kg and 1 100 ug/kg for cold water and warm water surface water, respectively
- Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a (DD) pregnant adult receptor. (EE) The [values listed in the table in Footnote (EE) in 299.49] are applicable generic GSI criteria as required by Section 20120e of the NREPA.
- The chloride GSI criterion shall be 125 mg/L when the discharge is to surface waters of the state designated as public water supply sources or 50 mg/L when the discharge is to the Great Lakes or connecting
- waters. Chloride GSI criteria shall not apply for surface waters of the state that are not designated as a public water supply source, however, the total dissolved solids criterion is applicable
- Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 (GG) percent of the lower explosive level for methane. This equates to 1.25 percent or  $8.4E+6\ ug/m^3$ .
- (HH) The residential criterion for sodium is 230,000 ug/L in accordance with the Sodium Advisory Council recommendation and revised Groundwater Discharge Standards.
- Insufficient data to develop criterion.
- A criterion or value is not available or, in the case of background and CAS numbers, not applicable.
- Hazardous substance is not likely to leach under most soil conditions NLL
- Hazardous substance is not likely to volatilize under most conditions. NLV
- Micrograms per kilogram ug/kg Micrograms per liter
- NS Not sampled
- Below Laboratory Method Detection Limits
- **BOLD** Exceeds highlighted criteria.



# Appendix A Laboratory Analytical Data



QUANTUM LABORATORIES, INC. 28221 Beck Road • Suite A-11 Wixom, Michigan 48393 248-348-TEST or 248-348-8378

# ANALYTICAL REPORT

For: AKT Peerless

214 Janes Ave Saginaw, MI 48607 Report Number: 10822

Report Date: November 11, 2019
Project Name: Flint Water Project

Project Number: 14535s Page: 1 of 69

989-754-9896 Fax: 989-754-3804

Mr. Josh Cichy

Mr. Jeff Carr

# **Sample Description**

Attn:

Nineteen (19) samples reported to be Soil (16) and Water (3) and identified as "Flint Water Project", 11/5/19, Grab and:

1. B-2s, 10:00 AM (Soil)

11. B-7s, 12:30 (Soil)

2. B-2d, 10:00 AM (Soil)

12. B-7d, 12:30 (Soil)

3. B-3s, 10:30 AM (Soil)

13. B-8s, 1:00 (Soil)

4. B-3d, 10:30 (Soil)

14. B-8d, 1:00 (Soil)

5. B-4s, 11:00 (Soil)

15. B-9s, 1:30 (Soil)

6. B-4d, 11:00 (Soil)

16. B-9d, 1:30 (Soil)

7. B-5s, 11:30 (Soil)

17. B-2 TMW, 10:00 (Water)

8. B-5d, 11:30 (Soil)

18. B-4 TMW, 11:00 (Water)

9. B-6s, 12:00 (Soil)

19. B-7 TMW, 12:30 (Water)

10. B-6d, 12:00 (Soil)

# **Analysis Requested**

Chemical Analysis per SW-846 (SW) for:

- 1. Volatile Organic Compounds (VOC), Methods 8260B and 5035 (Soil) (All Samples)
- 2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C (All Samples)
- 3. Polychlorinated Biphenyls (PCB), Method 8082A (Samples 3, 4, 7, 8, 11 and 12)
- 4. 10 Michigan Metals (Samples 1-16, 18 and 19)

a) Arsenic, Method 7010

b) Barium, Method 7010

c) Cadmium, Method 7010

d) Chromium, Method 7010

e) Copper, Method 7010

f) Lead, Method 7010

g) Mercury, Method 7470A (Water) or Method 7471B (Soil)

h) Selenium, Method 7010

i) Silver, Method 7010

i) Zinc, Method 7010



Report Date: Project Name: Project Number: Page: 10822 November 11, 2019 Flint Water Project

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# **Analytical Results**

Sample Description:	B-2s, 10:00 A	AM, 11/5/19				
Laboratory ID:	10822-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued						

Data Qualifiers: I

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page:

10822 November 11, 2019 Flint Water Project

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Sample Description:	B-2s, 10:00 A	AM, 11/5/19				
Laboratory ID:	10822-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	103%	-	% Recovery	11/07/19	BD	
Toluene-d8	101%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	102%	-	% Recovery	11/07/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	B-2s, 10:00 A	AM, 11/5/19				
Laboratory ID:	10822-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	40.7%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	47.2%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	60.5%	-	% Recovery	11/07/19	BD	
Michigan Metals						
Arsenic	824	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	82,400	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	11,600	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	11,100	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	6,810	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	24,200	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	82.2%	-	% by weight	11/05/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Matrix interference observed



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-2d, 10:00 A	AM, 11/5/19				
Laboratory ID:	10822-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-2d, 10:00 A	AM, 11/5/19				
Laboratory ID:	10822-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	103%	-	% Recovery	11/07/19	BD	
Toluene-d8	100%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/07/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-2d, 10:00 A	AM, 11/5/19				
Laboratory ID:	10822-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	45.4%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	55.5%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	70.6%	-	% Recovery	11/07/19	BD	
Michigan Metals						
Arsenic	1,120	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	120,000	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	17,800	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	11,900	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	7,930	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	32,000	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	75.4%	-	% by weight	11/05/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-3s, 10:30 A	AM, 11/5/19				
Laboratory ID:	10822-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-3s, 10:30 A	AM, 11/5/19				
Laboratory ID:	10822-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	104%	-	% Recovery	11/07/19	BD	
Toluene-d8	101%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/07/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-3s, 10:30 A	AM, 11/5/19				
Laboratory ID:	10822-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	43.6%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	48.2%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	60.1%	-	% Recovery	11/07/19	BD	
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/08/19	DS	
Surrogate Standards						
Tetrachloro-m-xylene	85.4%	-	% Recovery	11/08/19	DS	
Decachlorobiphenyl	107%	-	% Recovery	11/08/19	DS	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-3s, 10:30 A	AM, 11/5/19				
Laboratory ID:	10822-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Michigan Metals						
Arsenic	718	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	15,800	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	3,690	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	4,210	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	2,560	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	15,200	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	78.0%	-	% by weight	11/05/19	DS	
PCB Extraction	Completed	-	-	11/08/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-3d, 10:30,	11/5/19				
Laboratory ID:	10822-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-3d, 10:30,	11/5/19				
Laboratory ID:	10822-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	103%	-	% Recovery	11/07/19	BD	
Toluene-d8	102%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	102%	-	% Recovery	11/07/19	BD	
continued						

F Matrix Spike four times rule applied C See Case Narrative



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Sample Description:	B-3d, 10:30,	11/5/19				
Laboratory ID:	10822-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	55.4%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	59.2%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	71.1%	-	% Recovery	11/07/19	BD	
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/08/19	DS	
Surrogate Standards						
Tetrachloro-m-xylene	80.3%	-	% Recovery	11/08/19	DS	
Decachlorobiphenyl	102%	-	% Recovery	11/08/19	DS	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-3d, 10:30,	11/5/19				
Laboratory ID:	10822-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Michigan Metals						
Arsenic	4,020	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	21,300	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	5,920	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	7,620	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	4,200	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	33,200	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	82.2%	-	% by weight	11/05/19	DS	
PCB Extraction	Completed	-	-	11/08/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-4s, 11:00,	11/5/19				
Laboratory ID:	10822-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-4s, 11:00,	11/5/19				
Laboratory ID:	10822-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	105%	-	% Recovery	11/07/19	BD	
Toluene-d8	101%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	99.4%	-	% Recovery	11/07/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-4s, 11:00,	11/5/19				
Laboratory ID:	10822-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	44.1%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	47.3%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	78.0%	-	% Recovery	11/07/19	BD	
Michigan Metals						
Arsenic	1,480	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	11,800	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	4,040	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	6,020	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	2,690	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	19,200	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	83.1%	-	% by weight	11/05/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	

Matrix interference observed

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-4d, 11:00, 11/5/19						
Laboratory ID:	10822-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD		
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD		
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD		
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD		
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
continued							

Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-4d, 11:00,	11/5/19				
Laboratory ID:	10822-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	107%	-	% Recovery	11/07/19	BD	
Toluene-d8	102%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	99.2%	-	% Recovery	11/07/19	BD	
continued						



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Sample Description:	B-4d, 11:00, 11/5/19						
Laboratory ID:	10822-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Surrogate Standards							
Nitrobenzene-d5	45.2%	-	% Recovery	11/07/19	BD		
2-Fluorobiphenyl	53.7%	-	% Recovery	11/07/19	BD		
Terphenyl-d14	74.8%	-	% Recovery	11/07/19	BD		
Michigan Metals							
Arsenic	1,680	100	μg/Kg, dry wt.	11/07/19	DS		
Barium	12,200	1,000	μg/Kg, dry wt.	11/07/19	DS		
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS		
Chromium	4,590	2,000	μg/Kg, dry wt.	11/07/19	DS		
Copper	6,900	1,000	μg/Kg, dry wt.	11/07/19	DS		
Lead	2,980	1,000	μg/Kg, dry wt.	11/07/19	DS		
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS		
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS		
Zinc	24,200	1,000	μg/Kg, dry wt.	11/07/19	DS		
Analysis Information							
Dry Weight Solids	81.1%	-	% by weight	11/05/19	DS		
PNA Extraction	Completed	-	-	11/07/19	LB		
Mercury Digestion	Completed	-	-	11/06/19	DS		
Metals Digestion	Completed	-	-	11/06/19	DS		

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



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Sample Description:	B-5s, 11:30, 11/5/19						
Laboratory ID:	10822-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD		
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD		
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD		
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD		
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
continued							

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-5s, 11:30, 11/5/19						
Laboratory ID:	10822-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOC's, Cont'd							
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD		
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD		
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD		
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD		
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD		
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD		
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD		
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD		
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	104%	-	% Recovery	11/07/19	BD		
Toluene-d8	101%	-	% Recovery	11/07/19	BD		
4-Bromofluorobenzene	102%	-	% Recovery	11/07/19	BD		
continued							

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-5s, 11:30, 11/5/19						
Laboratory ID:	10822-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Surrogate Standards							
Nitrobenzene-d5	42.1%	-	% Recovery	11/07/19	BD		
2-Fluorobiphenyl	51.4%	-	% Recovery	11/07/19	BD		
Terphenyl-d14	62.5%	-	% Recovery	11/07/19	BD		
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/08/19	DS		
Surrogate Standards							
Tetrachloro-m-xylene	84.3%	-	% Recovery	11/08/19	DS		
Decachlorobiphenyl	114%	-	% Recovery	11/08/19	DS		
continued							

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-5s, 11:30,	B-5s, 11:30, 11/5/19							
Laboratory ID:	10822-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers			
Michigan Metals									
Arsenic	1,120	100	μg/Kg, dry wt.	11/07/19	DS				
Barium	13,200	1,000	μg/Kg, dry wt.	11/07/19	DS				
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS				
Chromium	3,590	2,000	μg/Kg, dry wt.	11/07/19	DS				
Copper	2,050	1,000	μg/Kg, dry wt.	11/07/19	DS				
Lead	3,000	1,000	μg/Kg, dry wt.	11/07/19	DS				
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS				
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS				
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS				
Zinc	8,400	1,000	μg/Kg, dry wt.	11/07/19	DS				
Analysis Information									
Dry Weight Solids	84.9%	-	% by weight	11/05/19	DS				
PCB Extraction	Completed	-	-	11/08/19	DS				
PNA Extraction	Completed	-	-	11/07/19	LB				
Mercury Digestion	Completed	-	-	11/06/19	DS				
Metals Digestion	Completed	-		11/06/19	DS				



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Sample Description:	B-5d, 11:30, 11/5/19					
Laboratory ID:	10822-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued			- <del>-</del>			

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-5d, 11:30,	11/5/19				
Laboratory ID:	10822-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	108%	-	% Recovery	11/07/19	BD	
Toluene-d8	102%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/07/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-5d, 11:30,	11/5/19				
Laboratory ID:	10822-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	42.8%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	51.6%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	67.6%	-	% Recovery	11/07/19	BD	
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/08/19	DS	
Surrogate Standards						
Tetrachloro-m-xylene	87.1%	-	% Recovery	11/08/19	DS	
Decachlorobiphenyl	112%	-	% Recovery	11/08/19	DS	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-5d, 11:30,	11/5/19				
Laboratory ID:	10822-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Michigan Metals						
Arsenic	872	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	6,400	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	2,650	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	3,630	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	2,750	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	9,400	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	79.8%	-	% by weight	11/05/19	DS	
PCB Extraction	Completed	-	-	11/08/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	



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Sample Description:	B-6s, 12:00,	11/5/19				
Laboratory ID:	10822-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued						



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Sample Description:	B-6s, 12:00,	11/5/19				
Laboratory ID:	10822-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	109%	-	% Recovery	11/07/19	BD	
Toluene-d8	102%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	97.7%	-	% Recovery	11/07/19	BD	
continued						



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Sample Description:	B-6s, 12:00,	11/5/19				
Laboratory ID:	10822-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	38.2%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	45.0%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	69.8%	-	% Recovery	11/07/19	BD	
Michigan Metals						
Arsenic	1,220	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	7,560	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	Not Detected	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	4,120	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	2,260	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	16,000	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	80.2%	-	% by weight	11/05/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-6d, 12:00,	11/5/19				
Laboratory ID:	10822-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued						

Internal Standard results outside of acceptance limits

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-6d, 12:00,	11/5/19				
Laboratory ID:	10822-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	106%	-	% Recovery	11/07/19	BD	
Toluene-d8	100%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	99.6%	-	% Recovery	11/07/19	BD	
continued						



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-6d, 12:00,	11/5/19				
Laboratory ID:	10822-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	45.4%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	54.9%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	78.0%	-	% Recovery	11/07/19	BD	
Michigan Metals						
Arsenic	1,480	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	9,180	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	2,900	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	5,350	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	2,390	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	16,400	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	77.7%	-	% by weight	11/05/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-7s, 12:30,	11/5/19				
Laboratory ID:	10822-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued			<del>-</del>			

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page: 10822

November 11, 2019 Flint Water Project 14535s 37 of 69

Sample Description:	B-7s, 12:30,	11/5/19				
Laboratory ID:	10822-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	103%	-	% Recovery	11/07/19	BD	
Toluene-d8	102%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/07/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

November 11, 2019 Flint Water Project 14535s 38 of 69

Sample Description:	B-7s, 12:30,	11/5/19				
Laboratory ID:	10822-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	45.6%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	64.7%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	77.5%	-	% Recovery	11/07/19	BD	
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/08/19	DS	
Surrogate Standards						
Tetrachloro-m-xylene	91.5%	-	% Recovery	11/08/19	DS	
Decachlorobiphenyl	130%	-	% Recovery	11/08/19	DS	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-7s, 12:30,	11/5/19				
Laboratory ID:	10822-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Michigan Metals						
Arsenic	1,220	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	13,200	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	5,190	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	7,210	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	4,330	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	18,600	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	87.9%	-	% by weight	11/05/19	DS	
PCB Extraction	Completed	-	-	11/08/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-7d, 12:30,	1/5/19				
Laboratory ID:	10822-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/07/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/07/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/07/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



Report Date: Project Name: Project Number: Page: 10822

November 11, 2019 Flint Water Project 14535s 41 of 69

Sample Description:	B-7d, 12:30,	1/5/19				
Laboratory ID:	10822-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/07/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/07/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/07/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/07/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/07/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/07/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/07/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	105%	-	% Recovery	11/07/19	BD	
Toluene-d8	101%	-	% Recovery	11/07/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/07/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-7d, 12:30, 1/5/19						
Laboratory ID:	10822-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Surrogate Standards							
Nitrobenzene-d5	43.4%	-	% Recovery	11/07/19	BD		
2-Fluorobiphenyl	72.4%	-	% Recovery	11/07/19	BD		
Terphenyl-d14	70.7%	-	% Recovery	11/07/19	BD		
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/08/19	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/08/19	DS		
Surrogate Standards							
Tetrachloro-m-xylene	91.4%	-	% Recovery	11/08/19	DS		
Decachlorobiphenyl	119%	-	% Recovery	11/08/19	DS		
continued							

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name:
Project Number:
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Sample Description:	B-7d, 12:30,	1/5/19				
Laboratory ID:	10822-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Michigan Metals						
Arsenic	1,300	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	8,920	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	2,800	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	5,460	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	3,250	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	16,800	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	76.0%	-	% by weight	11/05/19	DS	
PCB Extraction	Completed	-	-	11/08/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	



Report Date: Project Name: Project Number: Page:

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Sample Description:	B-8s, 1:00, 1	1/5/19				
Laboratory ID:	10822-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/08/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/08/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/08/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/08/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-8s, 1:00, 1	1/5/19				
Laboratory ID:	10822-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/08/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/08/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/08/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/08/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/08/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/08/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/08/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	109%	-	% Recovery	11/08/19	BD	
Toluene-d8	103%	-	% Recovery	11/08/19	BD	
4-Bromofluorobenzene	103%	-	% Recovery	11/08/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-8s, 1:00, 1	1/5/19				
Laboratory ID:	10822-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	47.2%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	52.1%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	60.8%	-	% Recovery	11/07/19	BD	
Michigan Metals						
Arsenic	1,390	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	10,200	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	3,360	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	4,530	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	3,250	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	14,400	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	88.3%	-	% by weight	11/05/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	

S QC spike recovery outside of acceptance limits R RPD outside of acceptance limits

F Matrix Spike four times rule appliedC See Case Narrative

Internal Standard results outside of acceptance limits

E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated

M Matrix interference observed



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-8d, 1:00, 11/5/19						
Laboratory ID:	10822-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/08/19	BD		
Benzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/08/19	BD		
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/08/19	BD		
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/08/19	BD		
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-8d, 1:00, 1	1/5/19				
Laboratory ID:	10822-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/08/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/08/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/08/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/08/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/08/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/08/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/08/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	106%	-	% Recovery	11/08/19	BD	
Toluene-d8	102%	-	% Recovery	11/08/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/08/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-8d, 1:00, 1	1/5/19				
Laboratory ID:	10822-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	42.1%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	51.1%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	69.1%	-	% Recovery	11/07/19	BD	
Michigan Metals						
Arsenic	1,410	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	48,900	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	13,500	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	12,000	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	7,240	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	33,600	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	85.4%	-	% by weight	11/05/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	

Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-9s, 1:30, 1	1/5/19				
Laboratory ID:	10822-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/08/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/08/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/08/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/08/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10822

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Sample Description:	B-9s, 1:30, 1	1/5/19				
Laboratory ID:	10822-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/08/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/08/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/08/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/08/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/08/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/08/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/08/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	105%	-	% Recovery	11/08/19	BD	
Toluene-d8	101%	-	% Recovery	11/08/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/08/19	BD	
continued						



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Sample Description:	B-9s, 1:30, 1	1/5/19				
Laboratory ID:	10822-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD	
Surrogate Standards						
Nitrobenzene-d5	41.1%	-	% Recovery	11/07/19	BD	
2-Fluorobiphenyl	54.9%	-	% Recovery	11/07/19	BD	
Terphenyl-d14	57.5%	-	% Recovery	11/07/19	BD	
Michigan Metals						
Arsenic	1,210	100	μg/Kg, dry wt.	11/07/19	DS	
Barium	39,200	1,000	μg/Kg, dry wt.	11/07/19	DS	
Cadmium	447	200	μg/Kg, dry wt.	11/07/19	DS	
Chromium	7,500	2,000	μg/Kg, dry wt.	11/07/19	DS	
Copper	12,200	1,000	μg/Kg, dry wt.	11/07/19	DS	
Lead	27,700	1,000	μg/Kg, dry wt.	11/07/19	DS	
Mercury	70	50	μg/Kg, dry wt.	11/07/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS	
Zinc	56,400	1,000	μg/Kg, dry wt.	11/07/19	DS	
Analysis Information						
Dry Weight Solids	82.2%	-	% by weight	11/05/19	DS	
PNA Extraction	Completed	-	-	11/07/19	LB	
Mercury Digestion	Completed	-	-	11/06/19	DS	
Metals Digestion	Completed	-	-	11/06/19	DS	

S QC spike recovery outside of acceptance limits R PD outside of acceptance limits

F Matrix Spike four times rule appliedC See Case Narrative

Internal Standard results outside of acceptance limits

<sup>.....</sup> 

Reporting limit is elevated
Result is from a dilution
Result should be considered estimated



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Sample Description:	B-9d, 1:30, 11/5/19						
Laboratory ID:	10822-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/08/19	BD		
Benzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/08/19	BD		
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/08/19	BD		
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/08/19	BD		
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD		
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD		
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD		
continued							

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-9d, 1:30, 1	1/5/19				
Laboratory ID:	10822-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/08/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/08/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/08/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/08/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/08/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/08/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/08/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/08/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/08/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/08/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	107%	-	% Recovery	11/08/19	BD	
Toluene-d8	102%	-	% Recovery	11/08/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/08/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-9d, 1:30, 11/5/19						
Laboratory ID:	10822-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/07/19	BD		
Surrogate Standards							
Nitrobenzene-d5	33.2%	-	% Recovery	11/07/19	BD		
2-Fluorobiphenyl	40.4%	-	% Recovery	11/07/19	BD		
Terphenyl-d14	56.8%	-	% Recovery	11/07/19	BD		
Michigan Metals							
Arsenic	1,480	100	μg/Kg, dry wt.	11/07/19	DS		
Barium	38,500	1,000	μg/Kg, dry wt.	11/07/19	DS		
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS		
Chromium	10,500	2,000	μg/Kg, dry wt.	11/07/19	DS		
Copper	9,320	1,000	μg/Kg, dry wt.	11/07/19	DS		
Lead	14,300	1,000	μg/Kg, dry wt.	11/07/19	DS		
Mercury	Not Detected	50	μg/Kg, dry wt.	11/07/19	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	11/07/19	DS		
Silver	Not Detected	100	μg/Kg, dry wt.	11/07/19	DS		
Zinc	31,200	1,000	μg/Kg, dry wt.	11/07/19	DS		
Analysis Information							
Dry Weight Solids	87.5%	-	% by weight	11/05/19	DS		
PNA Extraction	Completed	-	- -	11/07/19	LB		
Mercury Digestion	Completed	-	-	11/06/19	DS		
Metals Digestion	Completed	-	-	11/06/19	DS		

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J



Report Date: Project Name: Project Number: Page:

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Sample Description:	B-2/TMW, 10	:00, 11/5/19				
Laboratory ID:	10822-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	11/08/19	BD	
Benzene	Not Detected	1	μg/L	11/08/19	BD	
Bromobenzene	Not Detected	1	μg/L	11/08/19	BD	
Bromochloromethane	Not Detected	1	μg/L	11/08/19	BD	
Bromodichloromethane	Not Detected	1	μg/L	11/08/19	BD	
Bromoform	Not Detected	1	μg/L	11/08/19	BD	
Bromomethane	Not Detected	5	μg/L	11/08/19	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	11/08/19	BD	
n-Butylbenzene	Not Detected	1	μg/L	11/08/19	BD	
sec-Butylbenzene	Not Detected	1	μg/L	11/08/19	BD	
tert-Butylbenzene	Not Detected	1	μg/L	11/08/19	BD	
Carbon disulfide	Not Detected	5	μg/L	11/08/19	BD	
Carbon tetrachloride	Not Detected	1	μg/L	11/08/19	BD	
Chlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
Chloroethane	Not Detected	5	μg/L	11/08/19	BD	
Chloroform	Not Detected	1	μg/L	11/08/19	BD	
Chloromethane	Not Detected	5	μg/L	11/08/19	BD	
2-Chlorotoluene	Not Detected	5	μg/L	11/08/19	BD	
4-Chlorotoluene	Not Detected	5	μg/L	11/08/19	BD	
Dibromochloromethane	Not Detected	5	μg/L	11/08/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	11/08/19	BD	
Dibromomethane	Not Detected	5	μg/L	11/08/19	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	11/08/19	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	11/08/19	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	11/08/19	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	11/08/19	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	11/08/19	BD	
cis-1,3-Dichloropropene	Not Detected	1	μg/L	11/08/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-2/TMW, 10	:00, 11/5/19				
Laboratory ID:	10822-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	μg/L	11/08/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	11/08/19	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	11/08/19	BD	
2-Hexanone	Not Detected	50	μg/L	11/08/19	BD	
Isopropyl benzene	Not Detected	5	μg/L	11/08/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	11/08/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	11/08/19	BD	
Methylene chloride	Not Detected	5	μg/L	11/08/19	BD	
2-Methylnapthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
n-Propyl benzene	Not Detected	1	μg/L	11/08/19	BD	
Styrene	Not Detected	1	μg/L	11/08/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	11/08/19	BD	
Tetrachloroethylene	Not Detected	1	μg/L	11/08/19	BD	
Tetrahydrofuran	Not Detected	90	μg/L	11/08/19	BD	
Toluene	Not Detected	1	μg/L	11/08/19	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	11/08/19	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	11/08/19	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	11/08/19	BD	
Trichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	11/08/19	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	11/08/19	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	11/08/19	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	11/08/19	BD	
Vinyl Acetate	Not Detected	100	μg/L	11/08/19	BD	
Vinyl chloride	Not Detected	1	μg/L	11/08/19	BD	
Xylene (Total)	Not Detected	3	μg/L	11/08/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	11/08/19	BD	
Toluene-d8	105%	-	% Recovery	11/08/19	BD	
4-Bromofluorobenzene	99.3%	-	% Recovery	11/08/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	B-2/TMW, 10	:00, 11/5/19				
Laboratory ID:	10822-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	5	μg/L	11/08/19	BD	
Acenaphthylene	Not Detected	5	μg/L	11/08/19	BD	
Anthracene	Not Detected	5	μg/L	11/08/19	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	11/08/19	BD	
Chrysene	Not Detected	1	μg/L	11/08/19	BD	
Dibenz(a,h)anthracene	Not Detected	2	μg/L	11/08/19	BD	
Fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Fluorene	Not Detected	5	μg/L	11/08/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	11/08/19	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
Phenanthrene	Not Detected	2	μg/L	11/08/19	BD	
Pyrene	Not Detected	5	μg/L	11/08/19	BD	
Surrogate Standards						
Nitrobenzene-d5	75.9%	-	% Recovery	11/08/19	BD	
2-Fluorobiphenyl	74.0%	-	% Recovery	11/08/19	BD	
Terphenyl-d14	82.5%	-	% Recovery	11/08/19	BD	
Analysis Information						
PNA Extraction	Completed	-	-	11/08/19	DS/BD	



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Sample Description:	B-4/TMW, 11	:00, 11/5/19				
Laboratory ID:	10822-18	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	11/08/19	BD	
Benzene	Not Detected	1	μg/L	11/08/19	BD	
Bromobenzene	Not Detected	1	μg/L	11/08/19	BD	
Bromochloromethane	Not Detected	1	μg/L	11/08/19	BD	
Bromodichloromethane	Not Detected	1	μg/L	11/08/19	BD	
Bromoform	Not Detected	1	μg/L	11/08/19	BD	
Bromomethane	Not Detected	5	μg/L	11/08/19	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	11/08/19	BD	
n-Butylbenzene	Not Detected	1	μg/L	11/08/19	BD	
sec-Butylbenzene	Not Detected	1	μg/L	11/08/19	BD	
tert-Butylbenzene	Not Detected	1	μg/L	11/08/19	BD	
Carbon disulfide	Not Detected	5	μg/L	11/08/19	BD	
Carbon tetrachloride	Not Detected	1	μg/L	11/08/19	BD	
Chlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
Chloroethane	Not Detected	5	μg/L	11/08/19	BD	
Chloroform	Not Detected	1	μg/L	11/08/19	BD	
Chloromethane	Not Detected	5	μg/L	11/08/19	BD	
2-Chlorotoluene	Not Detected	5	μg/L	11/08/19	BD	
4-Chlorotoluene	Not Detected	5	μg/L	11/08/19	BD	
Dibromochloromethane	Not Detected	5	μg/L	11/08/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	11/08/19	BD	
Dibromomethane	Not Detected	5	μg/L	11/08/19	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	11/08/19	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	11/08/19	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	11/08/19	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	11/08/19	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	11/08/19	BD	
cis-1,3-Dichloropropene	Not Detected	1	μg/L	11/08/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-4/TMW, 11	:00, 11/5/19				
Laboratory ID:	10822-18	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	μg/L	11/08/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	11/08/19	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	11/08/19	BD	
2-Hexanone	Not Detected	50	μg/L	11/08/19	BD	
Isopropyl benzene	Not Detected	5	μg/L	11/08/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	11/08/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	11/08/19	BD	
Methylene chloride	Not Detected	5	μg/L	11/08/19	BD	
2-Methylnapthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
n-Propyl benzene	Not Detected	1	μg/L	11/08/19	BD	
Styrene	Not Detected	1	μg/L	11/08/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	11/08/19	BD	
Tetrachloroethylene	Not Detected	1	μg/L	11/08/19	BD	
Tetrahydrofuran	Not Detected	90	μg/L	11/08/19	BD	
Toluene	Not Detected	1	μg/L	11/08/19	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	11/08/19	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	11/08/19	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	11/08/19	BD	
Trichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	11/08/19	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	11/08/19	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	11/08/19	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	11/08/19	BD	
Vinyl Acetate	Not Detected	100	μg/L	11/08/19	BD	
Vinyl chloride	Not Detected	1	μg/L	11/08/19	BD	
Xylene (Total)	Not Detected	3	μg/L	11/08/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	115%	-	% Recovery	11/08/19	BD	
Toluene-d8	105%	-	% Recovery	11/08/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/08/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-4/TMW, 11	:00, 11/5/19				
Laboratory ID:	10822-18	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	5	μg/L	11/08/19	BD	
Acenaphthylene	Not Detected	5	μg/L	11/08/19	BD	
Anthracene	Not Detected	5	μg/L	11/08/19	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	11/08/19	BD	
Chrysene	Not Detected	1	μg/L	11/08/19	BD	
Dibenz(a,h)anthracene	Not Detected	2	μg/L	11/08/19	BD	
Fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Fluorene	Not Detected	5	μg/L	11/08/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	11/08/19	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
Phenanthrene	Not Detected	2	μg/L	11/08/19	BD	
Pyrene	Not Detected	5	μg/L	11/08/19	BD	
Surrogate Standards						
Nitrobenzene-d5	75.6%	-	% Recovery	11/08/19	BD	
2-Fluorobiphenyl	65.4%	-	% Recovery	11/08/19	BD	
Terphenyl-d14	64.6%	-	% Recovery	11/08/19	BD	
Michigan Metals						
Arsenic	Not Detected	5	μg/L	11/07/19	DS	
Barium	Not Detected	100	μg/L	11/07/19	DS	
Cadmium	Not Detected	1	μg/L	11/07/19	DS	
Chromium	Not Detected	5	μg/L	11/07/19	DS	
Copper	Not Detected	4	μg/L	11/07/19	DS	
Lead	Not Detected	3	μg/L	11/07/19	DS	
Mercury	Not Detected	0.2	μg/L	11/07/19	DS	
Selenium	Not Detected	5	μg/L	11/07/19	DS	
Silver	Not Detected	0.2	μg/L	11/07/19	DS	
Zinc	Not Detected	50	μg/L	11/07/19	DS	
Analysis Information						
PNA Extraction	Completed	-	-	11/08/19	DS/BD	
Mercury Digestion	Completed	-	-	11/07/19	LB	
Metals Digestion	Completed	-	-	11/07/19	LB	

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-7/TMW, 12	:30, 11/5/19				
Laboratory ID:	10822-19	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	11/08/19	BD	
Benzene	Not Detected	1	μg/L	11/08/19	BD	
Bromobenzene	Not Detected	1	μg/L	11/08/19	BD	
Bromochloromethane	Not Detected	1	μg/L	11/08/19	BD	
Bromodichloromethane	Not Detected	1	μg/L	11/08/19	BD	
Bromoform	Not Detected	1	μg/L	11/08/19	BD	
Bromomethane	Not Detected	5	μg/L	11/08/19	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	11/08/19	BD	
n-Butylbenzene	Not Detected	1	μg/L	11/08/19	BD	
sec-Butylbenzene	Not Detected	1	μg/L	11/08/19	BD	
tert-Butylbenzene	Not Detected	1	μg/L	11/08/19	BD	
Carbon disulfide	Not Detected	5	μg/L	11/08/19	BD	
Carbon tetrachloride	Not Detected	1	μg/L	11/08/19	BD	
Chlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
Chloroethane	Not Detected	5	μg/L	11/08/19	BD	
Chloroform	Not Detected	1	μg/L	11/08/19	BD	
Chloromethane	Not Detected	5	μg/L	11/08/19	BD	
2-Chlorotoluene	Not Detected	5	μg/L	11/08/19	BD	
4-Chlorotoluene	Not Detected	5	μg/L	11/08/19	BD	
Dibromochloromethane	Not Detected	5	μg/L	11/08/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	11/08/19	BD	
Dibromomethane	Not Detected	5	μg/L	11/08/19	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	11/08/19	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	11/08/19	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	11/08/19	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	11/08/19	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	11/08/19	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	11/08/19	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	11/08/19	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	11/08/19	BD	
cis-1,3-Dichloropropene	Not Detected	1	μg/L	11/08/19	BD	
continued			. 5			

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

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Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



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Sample Description:	B-7/TMW, 12:30, 11/5/19						
Laboratory ID:	10822-19	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOC's, Cont'd							
Ethylbenzene	Not Detected	1	μg/L	11/08/19	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	11/08/19	BD		
Hexachlorobutadiene	Not Detected	0.2	μg/L	11/08/19	BD		
2-Hexanone	Not Detected	50	μg/L	11/08/19	BD		
Isopropyl benzene	Not Detected	5	μg/L	11/08/19	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	11/08/19	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	11/08/19	BD		
Methylene chloride	Not Detected	5	μg/L	11/08/19	BD		
2-Methylnapthalene	Not Detected	5	μg/L	11/08/19	BD		
Naphthalene	Not Detected	5	μg/L	11/08/19	BD		
n-Propyl benzene	Not Detected	1	μg/L	11/08/19	BD		
Styrene	Not Detected	1	μg/L	11/08/19	BD		
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	11/08/19	BD		
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	11/08/19	BD		
Tetrachloroethylene	Not Detected	1	μg/L	11/08/19	BD		
Tetrahydrofuran	Not Detected	90	μg/L	11/08/19	BD		
Toluene	Not Detected	1	μg/L	11/08/19	BD		
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	11/08/19	BD		
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	11/08/19	BD		
1,1,1-Trichloroethane	Not Detected	1	μg/L	11/08/19	BD		
1,1,2-Trichloroethane	Not Detected	1	μg/L	11/08/19	BD		
Trichloroethylene	Not Detected	1	μg/L	11/08/19	BD		
Trichlorofluoromethane	Not Detected	1	μg/L	11/08/19	BD		
1,2,3-Trichloropropane	Not Detected	1	μg/L	11/08/19	BD		
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	11/08/19	BD		
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	11/08/19	BD		
Vinyl Acetate	Not Detected	100	μg/L	11/08/19	BD		
Vinyl chloride	Not Detected	1	μg/L	11/08/19	BD		
Xylene (Total)	Not Detected	3	μg/L	11/08/19	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	124%	-	% Recovery	11/08/19	BD		
Toluene-d8	104%	-	% Recovery	11/08/19	BD		
4-Bromofluorobenzene	102%	-	% Recovery	11/08/19	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



Report Date: Project Name: Project Number: Page:

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Sample Description:	B-7/TMW, 12	:30, 11/5/19				
Laboratory ID:	10822-19	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	5	μg/L	11/08/19	BD	
Acenaphthylene	Not Detected	5	μg/L	11/08/19	BD	
Anthracene	Not Detected	5	μg/L	11/08/19	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	11/08/19	BD	
Chrysene	Not Detected	1	μg/L	11/08/19	BD	
Dibenz(a,h)anthracene	Not Detected	2	μg/L	11/08/19	BD	
Fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Fluorene	Not Detected	5	μg/L	11/08/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	11/08/19	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
Phenanthrene	Not Detected	2	μg/L	11/08/19	BD	
Pyrene	Not Detected	5	μg/L	11/08/19	BD	
Surrogate Standards			. 0			
Nitrobenzene-d5	58.5%	-	% Recovery	11/08/19	BD	
2-Fluorobiphenyl	63.6%	-	% Recovery	11/08/19	BD	
Terphenyl-d14	75.6%	-	% Recovery	11/08/19	BD	
Michigan Metals						
Arsenic	Not Detected	5	μg/L	11/07/19	DS	
Barium	Not Detected	100	μg/L	11/07/19	DS	
Cadmium	Not Detected	1	μg/L	11/07/19	DS	
Chromium	Not Detected	5	μg/L	11/07/19	DS	
Copper	Not Detected	4	μg/L	11/07/19	DS	
Lead	Not Detected	3	μg/L	11/07/19	DS	
Mercury	Not Detected	0.2	μg/L	11/07/19	DS	
Selenium	Not Detected	5	μg/L	11/07/19	DS	
Silver	Not Detected	0.2	μg/L	11/07/19	DS	
Zinc	Not Detected	50	μg/L	11/07/19	DS	
Analysis Information						
PNA Extraction	Completed	-	-	11/08/19	DS/BD	
Mercury Digestion	Completed	-	-	11/07/19	LB	
Metals Digestion	Completed	_	-	11/07/19	LB	

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Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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## **Quality Control**

## **VOC Matrix Spike Data**

Spiked Sample: 10820-1		Matrix: Soi	il	Units: ppl	o in extract			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	24	28	96	112	15.4	
Benzene	0.0	25	28	29	112	116	3.5	
Trichloroethene	0.0	25	24	24	96	96	0.0	
Toluene	0.0	25	24	24	96	96	0.0	
Chlorobenzene	0.0	25	21	22	84	88	4.7	

Spiked Sample: 10821	LCS	Matrix: Water		Units: ppl	o in solution			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	24	26	96	104	8.0	
Benzene	0.0	25	28	27	112	108	3.6	
Trichloroethene	0.0	25	23	23	92	92	0.0	
Toluene	0.0	25	25	23	100	92	8.3	
Chlorobenzene	0.0	25	21	20	84	80	4.9	

#### PNA Matrix Spike Data

Spiked Sample: 108	15-8	Matrix: Soil		Units: ppm in extract				
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Acenaphthene	0.0	20	11	11	55	55	0.0	
Phenanthrene	0.0	20	11	13	55	65	16.7	
Fluoranthene	0.0	20	11	13	55	65	16.7	
Pyrene	0.0	20	13	15	65	75	14.3	
Chrysene	0.0	20	12	15	60	75	22.2	

Spiked Sample: 10821 LCS		Matrix: Water		Units: ppm in extract				
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Acenaphthene	0.0	20	12	15	60	75	22.2	
Phenanthrene	0.0	20	12	16	60	80	28.6	
Fluoranthene	0.0	20	13	16	65	80	20.7	
Pyrene	0.0	20	12	16	60	80	28.6	
Chrysene	0.0	20	13	15	65	75	14.3	

Matrix Spike four times rule applied See Case Narrative



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## **Quality Control, Cont'd**

#### Metals Matrix Spike Data

Spiked Sample: 1	0822-6	Matrix: So	il	Units: ppl	b in solution			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Arsenic	8.4	12.5	23.2	20.0	119	93	15.0	
Barium	60.9	100	166	163	105	102	1.9	
Cadmium	0.5	1.3	1.7	1.8	100	104	2.4	
Chromium	22.9	10	37.7	34.0	147	111	10.2	
Copper	34.5	25	57.9	54.3	94	79	6.3	
Lead	14.9	25	34.2	35.0	77	81	2.3	
Mercury	0.0	5.0	4.8	4.6	95	91	4.3	
Selenium	0.0	25	20.0	16.1	80	64	21.9	
Silver	0.0	5.0	4.0	4.2	81	83	2.7	
Zinc	121	500	518	531	79	82	2.5	

Spiked Sample: 10	0822-18 (1082	2 LCS for M	ercury)	Matrix: W	ater	Units: ppb	in solution	
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Arsenic	1.4	12.5	12.0	11.5	85	81	4.2	
Barium	28.4	100	131	137	102	109	4.9	
Cadmium	0.0	1.3	1.2	1.3	93	101	7.6	
Chromium	0.0	10	9.9	10.3	99	103	3.9	
Copper	1.8	25	25.9	32.6	96	123	23.1	
Lead	0.0	25	20.3	24.6	81	98	19.3	
Mercury	0.0	5.0	4.2	4.3	85	86	1.6	
Selenium	0.0	25	23.6	23.0	94	92	2.4	
Silver	0.0	5.0	3.5	3.7	70	74	5.6	
Zinc	0.0	500	433	381	87	76	12.8	

#### PCB Matrix Spike Data

Spiked Sample: 10821-4		Matrix: Soil		Units: ppm in extract				
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Aroclor 1260	0.000	0.200	0.186	0.209	93	104	11.6	

# **Case Narrative**

All method protocols and quality control requirements were satisfied for all samples.



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## **Notes**

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.

David W. Starr

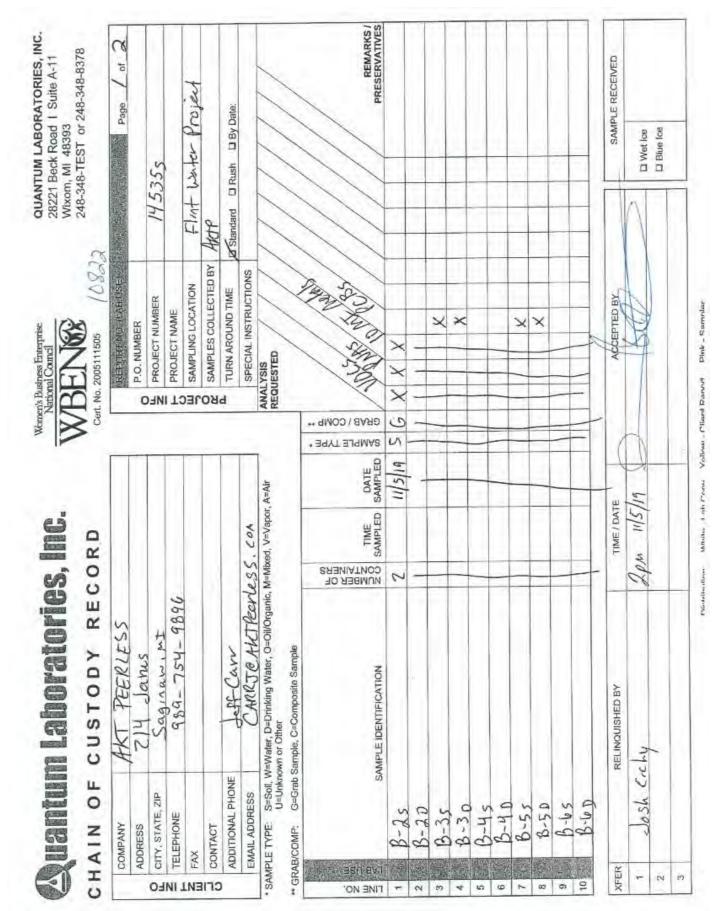
**Analytical Chemistry Manager** 



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- Internal Standard results outside of acceptance limits QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated
- Result is from a dilution
  Result should be considered estimated D
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Pink - Sampler

Yellow - Client Report

White - Lab Conv

Distribution:

RESERVATIVES QUANTUM LABORATORIES, INC. 4 248-348-TEST or 248-348-8378 28221 Beck Road | Suite A-11 SAMPLE RECEIVED 0 Page C By Date: Wixom, MI 48393 Bhe los D Wet i □ Rush **Standard** SAMPLES COLLECTED BY SPECIAL INSTRUCTIONS REPORT NO HABITSE SAMPLING LOCATION TURN AROUND TIME PROJECT NUMBER CCEPTED BY PROJECT NAME P.O. NUMBER Women's Business Enterprise National Council Cert. No. 2005111505 × × ANALYSIS REQUESTED X × PROJECT INFO GRAB / COMP .. 0 30 SAMPLE TYPE \* DATE 11/5/19 S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air U=Urixnown or Other TIME / DATE SAMPLED Martin Laboratories, Inc. RECORD 20M CONTAINERS NUMBER OF AKT PERLES) G=Grab Sample, C=Composite Sample CUSTODY SAMPLE IDENTIFICATION RELINQUISHED BY ADDITIONAL PHONE TNE 0 EMAIL ADDRESS CITY, STATE, ZIP TELEPHONE SAMPLE TYPE: COMPANY CONTACT 5 HAIN \*\* GRAB/COMP. 9 FAX XFER ESIN BYT gra CN 3-0 CLIENT INFO - 4 W A LINE NO.

Data Qualifiers:

- Internal Standard results outside of acceptance limits QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution
  Result should be considered estimated

D

- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



# **Q**uantum Laboratories, Inc.

QUANTUM LABORATORIES, INC. 28221 Beck Road • Suite A-11 Wixom, Michigan 48393 248-348-TEST or 248-348-8378

#### ANALYTICAL REPORT

For: AKT Peerless

214 Janes Ave Saginaw, MI 48607 Report Number:

10829

Report Date: Project Name: November 18, 2019 Flint Wade Trim

Project Number: Page:

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Attn: Mr. Noah Tibbitts

989-754-9896

Fax: 989-754-3804

## **Sample Description**

Forty-four (44) samples reported to be Soil (38) and Water (6) and identified as "Flint Wade Trim", and:

1. B-1s, 11/6/19 (Soil)

2. B-1d, 11/6/19 (Soil)

3. B-1/TMW, 11/6/19 (Water)

4. B-10s, 11/6/19 (Soil)

5. B-10d, 11/6/19 (Soil)

6. B-11s, 11/6/19 (Soil)

7. B-11d, 11/6/19 (Soil)

8. B-11/TMW, 11/6/19 (Water)

9. B-12s, 11/6/19 (Soil)

10. B-12d, 11/6/19 (Soil)

11. B-13s, 11/6/19 (Soil)

12. B-13d, 11/6/19 (Soil

13. B-14s, 11/6/19 (Soil)

14. B-14d, 11/6/19 (Soil)

15. B-14/TMW, 11/6/19 (Water)

16. B-15s, 11/6/19 (Soil)

17. B-15d, 11/6/19 (Soil)

18. B-16s, 11/7/19 (Soil)

19. B-16d, 11/7/19 (Soil)

20. B-17s, 11/7/19 (Soil)

21. B-17d, 11/7/19 (Soil)22. B-17/TMW, 11/7/19 (Water)

23. B-18s, 11/7/19 (Soil)

24. B-18d, 11/7/19 (Soil)

25. B-19s, 11/7/19 (Soil)

26. B-19d, 11/7/19 (Soil)

27. B-19/TMW, 11/7/19 (Water)

28. B-20s, 11/7/19 (Soil)

29. B-20d, 11/7/19 (Soil)

30. B-21s, 11/7/19 (Soil)

31. B-21d, 11/7/19 (Soil)

32. B-22s, 11/7/19 (Soil)

33. B-22d, 11/7/19 (Soil)

34. B-23s, 11/7/19 (Soil)

35. B-23d, 11/7/19 (Soil)

36. B-24s, 11/7/19 (Soil)

37. B-24d, 11/7/19 (Soil)

38. B-25s, 11/7/19 (Soil)

39. B-25d, 11/7/19 (Soil)

40. B-26s, 11/6/19 (Soil)

41. B-26d, 11/6/19 (Soil)

42. B-27s, 11/6/19 (Soil)

43. B-27d, 11/6/19 (Soil)

44. B-27/TMW, 11/6/19 (Water)

## **Analysis Requested**

Chemical Analysis per SW-846 (SW) for:

- 1. Volatile Organic Compounds (VOC), Methods 8260B and 5035 (Soil) (All Samples)
- 2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C (All Samples)
- 3. Polychlorinated Biphenyls (PCB), Method 8082A (Samples 4, 5, 30, 31, 34, 35, 38 and 39)
- 4. 10 Michigan Metals (Samples 1-21, 23-26, 28-30 and 32-43
  - a) Arsenic, Method 7010
  - b) Barium, Method 7010
  - c) Cadmium, Method 7010
  - d) Chromium, Method 7010
  - e) Copper, Method 7010

- f) Lead, Method 7010
- g) Mercury, Method 7470A (Water) or Method 7471B (Soil)
- h) Selenium, Method 7010
- i) Silver, Method 7010
- ) Zinc, Method 7010



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# **Analytical Results**

Sample Description:	B-1s, 11/6/19	)				
Laboratory ID:	10829-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-1s, 11/6/19	)				
Laboratory ID:	10829-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	113%	-	% Recovery	11/12/19	BD	
Toluene-d8	104%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	102%	-	% Recovery	11/12/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-1s, 11/6/19	)				
Laboratory ID:	10829-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	50.7%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	55.3%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	68.2%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	17,000	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	421,000	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	470	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	18,300	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	82,900	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	164,000	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	59	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	126	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	137,000	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	87.6%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-1d, 11/6/19	)				
Laboratory ID:	10829-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-1d, 11/6/19	)				
Laboratory ID:	10829-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	112%	-	% Recovery	11/12/19	BD	
Toluene-d8	104%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/12/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-1d, 11/6/19	)				
Laboratory ID:	10829-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	51.1%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	58.1%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	70.8%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	314	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	61,500	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	12,300	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	7,710	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	7,990	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	7,400	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	81.4%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Internal Standard results outside of acceptance limits

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-1/TMW, 11	/6/19				
Laboratory ID:	10829-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	11/11/19	BD	
Benzene	Not Detected	1	μg/L	11/11/19	BD	
Bromobenzene	Not Detected	1	μg/L	11/11/19	BD	
Bromochloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromodichloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromoform	Not Detected	1	μg/L	11/11/19	BD	
Bromomethane	Not Detected	5	μg/L	11/11/19	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	11/11/19	BD	
n-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
sec-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
tert-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Carbon disulfide	Not Detected	5	μg/L	11/11/19	BD	
Carbon tetrachloride	Not Detected	1	μg/L	11/11/19	BD	
Chlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Chloroethane	Not Detected	5	μg/L	11/11/19	BD	
Chloroform	Not Detected	1	μg/L	11/11/19	BD	
Chloromethane	Not Detected	5	μg/L	11/11/19	BD	
2-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
4-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
Dibromochloromethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	11/11/19	BD	
Dibromomethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	11/11/19	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,3-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
continued			·			

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-1/TMW, 11	/6/19				
Laboratory ID:	10829-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	11/11/19	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	11/11/19	BD	
2-Hexanone	Not Detected	50	μg/L	11/11/19	BD	
Isopropyl benzene	Not Detected	5	μg/L	11/11/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	11/11/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	11/11/19	BD	
Methylene chloride	Not Detected	5	μg/L	11/11/19	BD	
2-Methylnapthalene	Not Detected	5	μg/L	11/11/19	BD	
Naphthalene	Not Detected	5	μg/L	11/11/19	BD	
n-Propyl benzene	Not Detected	1	μg/L	11/11/19	BD	
Styrene	Not Detected	1	μg/L	11/11/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD	
Tetrachloroethylene	Not Detected	1	μg/L	11/11/19	BD	
Tetrahydrofuran	Not Detected	90	μg/L	11/11/19	BD	
Toluene	Not Detected	1	μg/L	11/11/19	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD	
Trichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	11/11/19	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Vinyl Acetate	Not Detected	100	μg/L	11/11/19	BD	
Vinyl chloride	Not Detected	1	μg/L	11/11/19	BD	
Xylene (Total)	Not Detected	3	μg/L	11/11/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	125%	-	% Recovery	11/11/19	BD	
Toluene-d8	106%	-	% Recovery	11/11/19	BD	
4-Bromofluorobenzene	100%	-	% Recovery	11/11/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-1/TMW, 11	/6/19				
Laboratory ID:	10829-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	5	μg/L	11/08/19	BD	
Acenaphthylene	Not Detected	5	μg/L	11/08/19	BD	
Anthracene	Not Detected	5	μg/L	11/08/19	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	11/08/19	BD	
Chrysene	Not Detected	1	μg/L	11/08/19	BD	
Dibenz(a,h)anthracene	Not Detected	2	μg/L	11/08/19	BD	
Fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Fluorene	Not Detected	5	μg/L	11/08/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	11/08/19	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
Phenanthrene	Not Detected	2	μg/L	11/08/19	BD	
Pyrene	Not Detected	5	μg/L	11/08/19	BD	
Surrogate Standards						
Nitrobenzene-d5	67.0%	-	% Recovery	11/08/19	BD	
2-Fluorobiphenyl	64.2%	-	% Recovery	11/08/19	BD	
Terphenyl-d14	71.8%	-	% Recovery	11/08/19	BD	
Michigan Metals						
Arsenic	Not Detected	5	μg/L	11/12/19	DS	
Barium	Not Detected	100	μg/L	11/12/19	DS	
Cadmium	Not Detected	1	μg/L	11/12/19	DS	
Chromium	Not Detected	5	μg/L	11/12/19	DS	
Copper	Not Detected	10	μg/L	11/12/19	DS	E, C
Lead	Not Detected	9	μg/L	11/12/19	DS	E, C
Mercury	Not Detected	0.2	μg/L	11/13/19	DS	
Selenium	Not Detected	5	μg/L	11/12/19	DS	
Silver	Not Detected	0.2	μg/L	11/12/19	DS	
Zinc	Not Detected	50	μg/L	11/12/19	DS	
Analysis Information						
PNA Extraction	Completed	-	-	11/08/19	BD/ DS	
Mercury Digestion	Completed	-	-	11/11/19	LB	
Metals Digestion	Completed	-	-	11/11/19	LB	

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-10s, 11/6/1	19				
Laboratory ID:	10829-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



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Sample Description:	B-10s, 11/6/1	9				
Laboratory ID:	10829-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	112%	-	% Recovery	11/12/19	BD	
Toluene-d8	103%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	100%	-	% Recovery	11/12/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-10s, 11/6/19						
Laboratory ID:	10829-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	61.2%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	61.5%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	75.3%	-	% Recovery	11/13/19	BD		
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/15/19	DS		
Surrogate Standards							
Tetrachloro-m-xylene	95.2%	-	% Recovery	11/15/19	DS		
Decachlorobiphenyl	125%	-	% Recovery	11/15/19	DS		
continued							

Matrix Spike four times rule applied See Case Narrative



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B-10s, 11/6/19 Sample Description: Reporting Units of Date of Data 10829-4 Laboratory ID: Analyst Qualifiers Limit Measure **Analysis** Michigan Metals 100 Arsenic Not Detected μg/Kg, dry wt. 11/14/19 DS Barium 83,000 1,000 μg/Kg, dry wt. 11/12/19 DS Cadmium Not Detected 200 DS μg/Kg, dry wt. 11/12/19 Chromium 11,000 2,000 μg/Kg, dry wt. 11/12/19 DS 8,780 Copper 1,000 μg/Kg, dry wt. 11/12/19 DS 2,890 1,000 DS Lead μg/Kg, dry wt. 11/12/19 Mercury Not Detected 50  $\mu g/Kg$ , dry wt. 11/13/19 DS Selenium Not Detected 200 μg/Kg, dry wt. 11/12/19 DS Silver Not Detected 100 μg/Kg, dry wt. 11/12/19 DS 28,600 DS Zinc 1,000 11/12/19 μg/Kg, dry wt. Analysis Information Dry Weight Solids 84.6% % by weight 11/11/19 LB PCB Extraction DS Completed 11/15/19 PNA Extraction Completed 11/13/19 LB Mercury Digestion Completed 11/13/19 LB LB Metals Digestion Completed 11/12/19

C See Case Narrative



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Sample Description:	B-10d, 11/6/1	19				
Laboratory ID:	10829-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

Internal Standard results outside of acceptance limits

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-10d, 11/6/1	19				
Laboratory ID:	10829-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	111%	-	% Recovery	11/12/19	BD	
Toluene-d8	103%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	100%	-	% Recovery	11/12/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-10d, 11/6/1	19				
Laboratory ID:	10829-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	54.2%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	55.9%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	69.3%	-	% Recovery	11/13/19	BD	
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/15/19	DS	
Surrogate Standards						
Tetrachloro-m-xylene	95.2%	-	% Recovery	11/15/19	DS	
Decachlorobiphenyl	126%	-	% Recovery	11/15/19	DS	
continued			-			



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B-10d, 11/6/19 Sample Description: Reporting Units of Date of Data 10829-5 Laboratory ID: Analyst Qualifiers Limit Measure **Analysis** Michigan Metals 100 Arsenic 146 μg/Kg, dry wt. 11/14/19 DS Barium 1,000 DS 86,000 μg/Kg, dry wt. 11/12/19 Cadmium Not Detected 200 DS μg/Kg, dry wt. 11/12/19 Chromium 14,400 2,000 μg/Kg, dry wt. 11/12/19 DS 9,430 Copper 1,000 μg/Kg, dry wt. 11/12/19 DS 7,180 1,000 DS Lead μg/Kg, dry wt. 11/12/19 Mercury Not Detected 50  $\mu g/Kg$ , dry wt. 11/13/19 DS Selenium Not Detected 200 μg/Kg, dry wt. 11/12/19 DS Silver Not Detected 100 μg/Kg, dry wt. 11/12/19 DS 37,200 DS Zinc 1,000 11/12/19 μg/Kg, dry wt. Analysis Information Dry Weight Solids 86.3% LB % by weight 11/11/19 PCB Extraction DS Completed 11/15/19 PNA Extraction Completed 11/13/19 LB Mercury Digestion Completed 11/13/19 LB LB Metals Digestion Completed 11/12/19



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Sample Description:	B-11s, 11/6/1	19				
Laboratory ID:	10829-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-11s, 11/6/1	19				
Laboratory ID:	10829-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	113%	-	% Recovery	11/12/19	BD	
Toluene-d8	103%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	100%	-	% Recovery	11/12/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-11s, 11/6/1	9				
Laboratory ID:	10829-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	50.5%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	57.0%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	65.8%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	950	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	42,700	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	234	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	7,820	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	9,040	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	15,400	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	4,200	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	77.9%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

E D J

Matrix interference observed

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-11d, 11/6/1	19				
Laboratory ID:	10829-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-11d, 11/6/1	19				
Laboratory ID:	10829-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	112%	-	% Recovery	11/12/19	BD	
Toluene-d8	103%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	102%	-	% Recovery	11/12/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-11d, 11/6/1	19				
Laboratory ID:	10829-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	56.5%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	58.9%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	69.8%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	62,100	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	13,400	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	9,840	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	7,290	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	33,200	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	82.4%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



Report Date: Project Name: Project Number: Page: 10829

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Sample Description:	B-11/TMW, 11/6/19					
Laboratory ID:	10829-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	11/11/19	BD	
Benzene	Not Detected	1	μg/L	11/11/19	BD	
Bromobenzene	Not Detected	1	μg/L	11/11/19	BD	
Bromochloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromodichloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromoform	Not Detected	1	μg/L	11/11/19	BD	
Bromomethane	Not Detected	5	μg/L	11/11/19	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	11/11/19	BD	
n-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
sec-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
tert-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Carbon disulfide	Not Detected	5	μg/L	11/11/19	BD	
Carbon tetrachloride	Not Detected	1	μg/L	11/11/19	BD	
Chlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Chloroethane	Not Detected	5	μg/L	11/11/19	BD	
Chloroform	Not Detected	1	μg/L	11/11/19	BD	
Chloromethane	Not Detected	5	μg/L	11/11/19	BD	
2-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
4-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
Dibromochloromethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	11/11/19	BD	
Dibromomethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	11/11/19	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,3-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
continued			-			

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10829

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Sample Description:	B-11/TMW, 11/6/19					
Laboratory ID:	10829-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	11/11/19	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	11/11/19	BD	
2-Hexanone	Not Detected	50	μg/L	11/11/19	BD	
Isopropyl benzene	Not Detected	5	μg/L	11/11/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	11/11/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	11/11/19	BD	
Methylene chloride	Not Detected	5	μg/L	11/11/19	BD	
2-Methylnapthalene	Not Detected	5	μg/L	11/11/19	BD	
Naphthalene	Not Detected	5	μg/L	11/11/19	BD	
n-Propyl benzene	Not Detected	1	μg/L	11/11/19	BD	
Styrene	Not Detected	1	μg/L	11/11/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD	
Tetrachloroethylene	Not Detected	1	μg/L	11/11/19	BD	
Tetrahydrofuran	Not Detected	90	μg/L	11/11/19	BD	
Toluene	Not Detected	1	μg/L	11/11/19	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD	
Trichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	11/11/19	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Vinyl Acetate	Not Detected	100	μg/L	11/11/19	BD	
Vinyl chloride	Not Detected	1	μg/L	11/11/19	BD	
Xylene (Total)	Not Detected	3	μg/L	11/11/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	124%	-	% Recovery	11/11/19	BD	
Toluene-d8	107%	-	% Recovery	11/11/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/11/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page: 10829

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Sample Description:	B-11/TMW, 1	1/6/19				
Laboratory ID:	10829-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	5	μg/L	11/08/19	BD	
Acenaphthylene	Not Detected	5	μg/L	11/08/19	BD	
Anthracene	Not Detected	5	μg/L	11/08/19	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	11/08/19	BD	
Chrysene	Not Detected	1	μg/L	11/08/19	BD	
Dibenz(a,h)anthracene	Not Detected	2	μg/L	11/08/19	BD	
Fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Fluorene	Not Detected	5	μg/L	11/08/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	11/08/19	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
Phenanthrene	Not Detected	2	μg/L	11/08/19	BD	
Pyrene	Not Detected	5	μg/L	11/08/19	BD	
Surrogate Standards						
Nitrobenzene-d5	42.8%	-	% Recovery	11/08/19	BD	
2-Fluorobiphenyl	58.4%	-	% Recovery	11/08/19	BD	
Terphenyl-d14	68.2%	-	% Recovery	11/08/19	BD	
Michigan Metals						
Arsenic	Not Detected	5	μg/L	11/12/19	DS	
Barium	Not Detected	100	μg/L	11/12/19	DS	
Cadmium	Not Detected	1	μg/L	11/12/19	DS	
Chromium	Not Detected	5	μg/L	11/12/19	DS	
Copper	Not Detected	10	μg/L	11/12/19	DS	E, C
Lead	Not Detected	9	μg/L	11/12/19	DS	E, C
Mercury	Not Detected	0.2	μg/L	11/13/19	DS	
Selenium	Not Detected	5	μg/L	11/12/19	DS	
Silver	Not Detected	0.2	μg/L	11/12/19	DS	
Zinc	Not Detected	50	μg/L	11/12/19	DS	
Analysis Information						
PNA Extraction	Completed	-	-	11/08/19	BD/ DS	
Mercury Digestion	Completed	-	-	11/11/19	LB	
Metals Digestion	Completed	-	-	11/11/19	LB	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-12s, 11/6/1	9				
Laboratory ID:	10829-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-12s, 11/6/1	19				
Laboratory ID:	10829-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	11/12/19	BD	
Toluene-d8	104%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/12/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10829

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Sample Description:	B-12s, 11/6/1	9				
Laboratory ID:	10829-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	54.5%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	55.3%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	72.5%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	416	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	36,400	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	7,550	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	3,960	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	4,470	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	23,400	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	82.3%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-12d, 11/6/1	19				
Laboratory ID:	10829-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	B-12d, 11/6/1	19				
Laboratory ID:	10829-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	113%	-	% Recovery	11/12/19	BD	
Toluene-d8	104%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	103%	-	% Recovery	11/12/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-12d, 11/6/1	19				
Laboratory ID:	10829-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	51.3%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	54.9%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	72.8%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	71,300	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	13,300	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	13,500	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	6,730	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	34,800	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	80.5%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Internal Standard results outside of acceptance limits

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix interference observed

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-13s, 11/6/1	19				
Laboratory ID:	10829-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J



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Sample Description:	B-13s, 11/6/1	9				
Laboratory ID:	10829-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	114%	-	% Recovery	11/12/19	BD	
Toluene-d8	103%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	102%	-	% Recovery	11/12/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-13s, 11/6/1	9				
Laboratory ID:	10829-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	45.8%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	51.4%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	89.2%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	758	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	46,500	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	8,980	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	5,010	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	2,930	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	28,200	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	81.8%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-13d, 11/6/1	19				
Laboratory ID:	10829-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-13d, 11/6/1	19				
Laboratory ID:	10829-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	114%	-	% Recovery	11/12/19	BD	
Toluene-d8	104%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/12/19	BD	
continued						

Internal Standard results outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-13d, 11/6/1	19				
Laboratory ID:	10829-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	55.0%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	60.8%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	75.9%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	1,090	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	44,700	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	8,910	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	6,800	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	4,710	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	32,000	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	87.8%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Matrix Spike four times rule applied See Case Narrative



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Sample Description: B-14s, 11/6/19 Units of Reporting Date of Data 10829-13 Laboratory ID: Analyst Limit Measure **Analysis** Qualifiers **Volatile Organic Compounds** Acetone Not Detected 1,000 11/12/19 BD μg/Kg, dry wt. Benzene Not Detected 50 μg/Kg, dry wt. 11/12/19 BD 100 Bromobenzene Not Detected 11/12/19 BD μg/Kg, dry wt. Bromochloromethane Not Detected 100 μg/Kg, dry wt. 11/12/19 BD Bromodichloromethane Not Detected 100 μg/Kg, dry wt. 11/12/19 BD **Bromoform** 100 Not Detected μg/Kg, dry wt. 11/12/19 BD Bromomethane Not Detected 200 11/12/19 BD μg/Kg, dry wt. 2-Butanone (MEK) Not Detected 750 11/12/19 BD μg/Kg, dry wt. Not Detected 50 11/12/19 BD n-Butylbenzene μg/Kg, dry wt. Not Detected 50 11/12/19 BD sec-Butylbenzene μg/Kg, dry wt. tert-Butylbenzene Not Detected 50 μg/Kg, dry wt. 11/12/19 BD Carbon disulfide Not Detected 250 BD μg/Kg, dry wt. 11/12/19 Carbon tetrachloride 50 BD Not Detected μg/Kg, dry wt. 11/12/19 Chlorobenzene Not Detected 50 BD μg/Kg, dry wt. 11/12/19 Chloroethane Not Detected 250 μg/Kg, dry wt. 11/12/19 BD BD Chloroform Not Detected 50 11/12/19 μg/Kg, dry wt. Chloromethane Not Detected 250 BD μg/Kg, dry wt. 11/12/19 2-Chlorotoluene Not Detected 50 μg/Kg, dry wt. 11/12/19 BD 4-Chlorotoluene Not Detected 50 11/12/19 BD μg/Kg, dry wt. Dibromochloromethane Not Detected 100 μg/Kg, dry wt. 11/12/19 BD 1,2-Dibromo-3-chloropropane Not Detected 10 μg/Kg, dry wt. 11/12/19 BD Not Detected Dibromomethane 250 μg/Kg, dry wt. 11/12/19 BD 1.2-Dichlorobenzene Not Detected 100 μg/Kg, dry wt. 11/12/19 BD 1,3-Dichlorobenzene Not Detected 100 μg/Kg, dry wt. 11/12/19 BD 100 BD 1,4-Dichlorobenzene Not Detected μg/Kg, dry wt. 11/12/19 Dichlorodifluoromethane Not Detected 250 μg/Kg, dry wt. 11/12/19 BD 1,1-Dichloroethane Not Detected 50 11/12/19 BD μg/Kg, dry wt. 1,2-Dichloroethane Not Detected 50 11/12/19 BD μg/Kg, dry wt. 1,1-Dichloroethylene Not Detected 50 11/12/19 BD μg/Kg, dry wt.  $\mu g/Kg$ , dry wt. cis-1,2-Dichloroethylene Not Detected 50 11/12/19 BD trans-1,2-Dichloroethylene Not Detected 50 11/12/19 BD μg/Kg, dry wt. 50 BD 1,2-Dichloropropane Not Detected μg/Kg, dry wt. 11/12/19 1,3-Dichloropropane Not Detected 50 μg/Kg, dry wt. 11/12/19 BD 50 BD 2,2-Dichloropropane Not Detected μg/Kg, dry wt. 11/12/19 Not Detected 50 1,1-Dichloropropene 11/12/19 BD μg/Kg, dry wt. cis-1,3-Dichloropropene Not Detected 50 11/12/19 BD μg/Kg, dry wt. continued

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Result is from a dilution
Result should be considered estimated D

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated

Matrix interference observed



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Sample Description: B-14s, 11/6/19 Reporting Units of Data Date of 10829-13 Laboratory ID: Analyst Limit Measure **Analysis** Qualifiers VOC's, Cont'd Ethylbenzene Not Detected 50 11/12/19 BD μg/Kg, dry wt. 20 Ethylene Dibromide (1,2-Dibromoethane) Not Detected μg/Kg, dry wt. 11/12/19 BD Hexachlorobutadiene 50 BD Not Detected μg/Kg, dry wt. 11/12/19 2-Hexanone Not Detected 2,500 μg/Kg, dry wt. 11/12/19 BD Isopropyl benzene Not Detected 250 μg/Kg, dry wt. 11/12/19 BD BD 4-Methyl-2-pentanone (MIBK) Not Detected 2,500 μg/Kg, dry wt. 11/12/19 Methyl-t-butyl ether (MTBE) Not Detected 250 11/12/19 BD μg/Kg, dry wt. Methylene chloride Not Detected 250 11/12/19 BD μg/Kg, dry wt. 2-Methylnapthalene Not Detected 250 μg/Kg, dry wt. 11/12/19 BD Naphthalene Not Detected 250 11/12/19 BD μg/Kg, dry wt. n-Propylbenzene Not Detected 100 μg/Kg, dry wt. 11/12/19 BD Not Detected 50 11/12/19 BD Styrene μg/Kg, dry wt. 100 BD 1,1,1,2-Tetrachloroethane Not Detected μg/Kg, dry wt. 11/12/19 1,1,2,2-Tetrachloroethane Not Detected 50 11/12/19 BD μg/Kg, dry wt. Tetrachloroethylene Not Detected 50 μg/Kg, dry wt. 11/12/19 BD Tetrahydrofuran 1,000 BD Not Detected 11/12/19 μg/Kg, dry wt. Not Detected 100 BD Toluene μg/Kg, dry wt. 11/12/19 BD 1,2,3-Trichlorobenzene Not Detected 250 μg/Kg, dry wt. 11/12/19 250 1,2,4-Trichlorobenzene Not Detected 11/12/19 BD μg/Kg, dry wt. 1,1,1-Trichloroethane Not Detected 50 μg/Kg, dry wt. 11/12/19 BD 1,1,2-Trichloroethane Not Detected 50 μg/Kg, dry wt. 11/12/19 BD Not Detected Trichloroethylene 50 μg/Kg, dry wt. 11/12/19 BD Trichlorofluoromethane Not Detected 100 μg/Kg, dry wt. 11/12/19 BD 1,2,3-Trichloropropane Not Detected 100 μg/Kg, dry wt. 11/12/19 BD 100 BD 1,2,4-Trimethylbenzene Not Detected μg/Kg, dry wt. 11/12/19 1,3,5-Trimethylbenzene Not Detected 100 μg/Kg, dry wt. 11/12/19 BD Vinyl Acetate Not Detected 5,000 μg/Kg, dry wt. 11/12/19 BD 40 Vinyl Chloride Not Detected μg/Kg, dry wt. 11/12/19 BD Xylene (Total) Not Detected 150 11/12/19 BD μg/Kg, dry wt. Surrogate Standards 1,2-Dichloroethane-d4 115% % Recovery 11/12/19 BD Toluene-d8 102% BD % Recovery 11/12/19 4-Bromofluorobenzene 102% % Recovery 11/12/19 BD continued

S QC spike recovery outside of acceptance limits R PD outside of acceptance limits

F Matrix Spike four times rule appliedC See Case Narrative

Internal Standard results outside of acceptance limits

E Reporting limit is elevated

D Result is from a dilution
J Result should be considered estimated

M Matrix interference observed



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Sample Description:	B-14s, 11/6/19						
Laboratory ID:	10829-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	46.3%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	50.7%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	64.1%	-	% Recovery	11/13/19	BD		
Michigan Metals							
Arsenic	1,020	100	μg/Kg, dry wt.	11/14/19	DS		
Barium	64,200	1,000	μg/Kg, dry wt.	11/12/19	DS		
Cadmium	1,090	200	μg/Kg, dry wt.	11/12/19	DS		
Chromium	11,300	2,000	μg/Kg, dry wt.	11/12/19	DS		
Copper	22,700	1,000	μg/Kg, dry wt.	11/12/19	DS		
Lead	27,900	1,000	μg/Kg, dry wt.	11/12/19	DS		
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS		
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS		
Zinc	120,000	1,000	μg/Kg, dry wt.	11/12/19	DS		
Analysis Information							
Dry Weight Solids	75.3%	-	% by weight	11/11/19	LB		
PNA Extraction	Completed	-	-	11/13/19	LB		
Mercury Digestion	Completed	-	-	11/13/19	LB		
Metals Digestion	Completed	-	-	11/12/19	LB		

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-14d, 11/6/1	19				
Laboratory ID:	10829-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued			<del>-</del>			

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-14d, 11/6/1	19				
Laboratory ID:	10829-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	115%	-	% Recovery	11/12/19	BD	
Toluene-d8	104%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/12/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-14d, 11/6/1	19				
Laboratory ID:	10829-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	53.4%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	57.4%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	73.6%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	4,970	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	79,900	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	17,900	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	16,000	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	8,630	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	50,400	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	79.6%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-14/TMW, 1	1/6/19				
Laboratory ID:	10829-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	11/11/19	BD	
Benzene	Not Detected	1	μg/L	11/11/19	BD	
Bromobenzene	Not Detected	1	μg/L	11/11/19	BD	
Bromochloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromodichloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromoform	Not Detected	1	μg/L	11/11/19	BD	
Bromomethane	Not Detected	5	μg/L	11/11/19	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	11/11/19	BD	
n-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
sec-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
tert-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Carbon disulfide	Not Detected	5	μg/L	11/11/19	BD	
Carbon tetrachloride	Not Detected	1	μg/L	11/11/19	BD	
Chlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Chloroethane	Not Detected	5	μg/L	11/11/19	BD	
Chloroform	Not Detected	1	μg/L	11/11/19	BD	
Chloromethane	Not Detected	5	μg/L	11/11/19	BD	
2-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
4-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
Dibromochloromethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	11/11/19	BD	
Dibromomethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	11/11/19	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,3-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
continued			-			

Matrix Spike four times rule applied See Case Narrative

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



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Sample Description:	B-14/TMW, 11/6/19						
Laboratory ID:	10829-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOC's, Cont'd							
Ethylbenzene	Not Detected	1	μg/L	11/11/19	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	11/11/19	BD		
Hexachlorobutadiene	Not Detected	0.2	μg/L	11/11/19	BD		
2-Hexanone	Not Detected	50	μg/L	11/11/19	BD		
Isopropyl benzene	Not Detected	5	μg/L	11/11/19	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	11/11/19	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	11/11/19	BD		
Methylene chloride	Not Detected	5	μg/L	11/11/19	BD		
2-Methylnapthalene	Not Detected	5	μg/L	11/11/19	BD		
Naphthalene	Not Detected	5	μg/L	11/11/19	BD		
n-Propyl benzene	Not Detected	1	μg/L	11/11/19	BD		
Styrene	Not Detected	1	μg/L	11/11/19	BD		
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD		
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD		
Tetrachloroethylene	Not Detected	1	μg/L	11/11/19	BD		
Tetrahydrofuran	Not Detected	90	μg/L	11/11/19	BD		
Toluene	Not Detected	1	μg/L	11/11/19	BD		
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD		
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD		
1,1,1-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD		
1,1,2-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD		
Trichloroethylene	Not Detected	1	μg/L	11/11/19	BD		
Trichlorofluoromethane	Not Detected	1	μg/L	11/11/19	BD		
1,2,3-Trichloropropane	Not Detected	1	μg/L	11/11/19	BD		
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD		
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD		
Vinyl Acetate	Not Detected	100	μg/L	11/11/19	BD		
Vinyl chloride	Not Detected	1	μg/L	11/11/19	BD		
Xylene (Total)	Not Detected	3	μg/L	11/11/19	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	128%	-	% Recovery	11/11/19	BD		
Toluene-d8	106%	-	% Recovery	11/11/19	BD		
4-Bromofluorobenzene	101%	-	% Recovery	11/11/19	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page: 10829

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Sample Description:	B-14/TMW, 1	1/6/19				
Laboratory ID:	10829-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	5	μg/L	11/08/19	BD	
Acenaphthylene	Not Detected	5	μg/L	11/08/19	BD	
Anthracene	Not Detected	5	μg/L	11/08/19	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	11/08/19	BD	
Chrysene	Not Detected	1	μg/L	11/08/19	BD	
Dibenz(a,h)anthracene	Not Detected	2	μg/L	11/08/19	BD	
Fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Fluorene	Not Detected	5	μg/L	11/08/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	11/08/19	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
Phenanthrene	Not Detected	2	μg/L	11/08/19	BD	
Pyrene	Not Detected	5	μg/L	11/08/19	BD	
Surrogate Standards						
Nitrobenzene-d5	71.6%	-	% Recovery	11/08/19	BD	
2-Fluorobiphenyl	80.2%	-	% Recovery	11/08/19	BD	
Terphenyl-d14	83.9%	-	% Recovery	11/08/19	BD	
Michigan Metals						
Arsenic	Not Detected	5	μg/L	11/12/19	DS	
Barium	Not Detected	100	μg/L	11/12/19	DS	
Cadmium	Not Detected	1	μg/L	11/12/19	DS	
Chromium	Not Detected	5	μg/L	11/12/19	DS	
Copper	Not Detected	10	μg/L	11/12/19	DS	E, C
Lead	Not Detected	9	μg/L	11/12/19	DS	E, C
Mercury	Not Detected	0.2	μg/L	11/13/19	DS	
Selenium	Not Detected	5	μg/L	11/12/19	DS	
Silver	Not Detected	0.2	μg/L	11/12/19	DS	
Zinc	Not Detected	50	μg/L	11/12/19	DS	
Analysis Information						
PNA Extraction	Completed	-	-	11/08/19	BD/ DS	
Mercury Digestion	Completed	-	-	11/11/19	LB	
Metals Digestion	Completed	-	-	11/11/19	LB	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page: 10829 November 18, 2019 Flint Wade Trim 14535s 49 of 149

Sample Description:	B-15s, 11/6/1	19				
Laboratory ID:	10829-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-15s, 11/6/1	19				
Laboratory ID:	10829-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	11/12/19	BD	
Toluene-d8	104%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/12/19	BD	
continued						



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Sample Description:	B-15s, 11/6/1	19				
Laboratory ID:	10829-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	55.4%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	60.4%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	75.8%	-	% Recovery	11/13/19	BD	
Michigan Metals			-			
Arsenic	142	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	46,500	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	209	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	11,600	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	11,000	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	6,600	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	55	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	234	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	46,800	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	80.2%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-		11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	_	11/12/19	LB	

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- E D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	B-15d, 11/6/1	19				
Laboratory ID:	10829-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/12/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/12/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/12/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-15d, 11/6/1	19				
Laboratory ID:	10829-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/12/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/12/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/12/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/12/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/12/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/12/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/12/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/12/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	111%	-	% Recovery	11/12/19	BD	
Toluene-d8	104%	-	% Recovery	11/12/19	BD	
4-Bromofluorobenzene	101%	-	% Recovery	11/12/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-15d, 11/6/1	9				
Laboratory ID:	10829-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	53.3%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	61.3%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	76.2%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	366	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	202,000	1,000	μg/Kg, dry wt.	11/12/19	DS	
Cadmium	247	200	μg/Kg, dry wt.	11/12/19	DS	
Chromium	11,200	2,000	μg/Kg, dry wt.	11/12/19	DS	
Copper	10,900	1,000	μg/Kg, dry wt.	11/12/19	DS	
Lead	9,470	1,000	μg/Kg, dry wt.	11/12/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS	
Zinc	36,000	1,000	μg/Kg, dry wt.	11/12/19	DS	
Analysis Information						
Dry Weight Solids	80.5%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-16s, 11/7/1	19				
Laboratory ID:	10829-18	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued			-			

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-16s, 11/7/1	19				
Laboratory ID:	10829-18	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	11/13/19	BD	
Toluene-d8	107%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	106%	-	% Recovery	11/13/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-16s, 11/7/19						
Laboratory ID:	10829-18	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	57.0%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	61.8%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	70.3%	-	% Recovery	11/13/19	BD		
Michigan Metals							
Arsenic	420	100	μg/Kg, dry wt.	11/14/19	DS		
Barium	47,500	1,000	μg/Kg, dry wt.	11/12/19	DS		
Cadmium	395	200	μg/Kg, dry wt.	11/12/19	DS		
Chromium	3,750	2,000	μg/Kg, dry wt.	11/12/19	DS		
Copper	11,300	1,000	μg/Kg, dry wt.	11/12/19	DS		
Lead	23,000	1,000	μg/Kg, dry wt.	11/12/19	DS		
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS		
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS		
Zinc	63,200	1,000	μg/Kg, dry wt.	11/12/19	DS		
Analysis Information							
Dry Weight Solids	67.2%	-	% by weight	11/11/19	LB		
PNA Extraction	Completed	-	-	11/13/19	LB		
Mercury Digestion	Completed	-	-	11/13/19	LB		
Metals Digestion	Completed	-	-	11/12/19	LB		

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-16d, 11/7/19					
Laboratory ID:	10829-19	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description: B-16d, 11/7/19 Reporting Units of Data Date of 10829-19 Laboratory ID: Analyst Limit Measure **Analysis** Qualifiers VOC's, Cont'd Ethylbenzene Not Detected 50 11/13/19 BD μg/Kg, dry wt. 20 Ethylene Dibromide (1,2-Dibromoethane) Not Detected μg/Kg, dry wt. 11/13/19 BD Hexachlorobutadiene 50 BD Not Detected μg/Kg, dry wt. 11/13/19 2-Hexanone Not Detected 2,500 μg/Kg, dry wt. 11/13/19 BD Isopropyl benzene Not Detected 250 μg/Kg, dry wt. 11/13/19 BD BD 4-Methyl-2-pentanone (MIBK) Not Detected 2,500 μg/Kg, dry wt. 11/13/19 Methyl-t-butyl ether (MTBE) Not Detected 250 11/13/19 BD μg/Kg, dry wt. Methylene chloride Not Detected 250 11/13/19 BD μg/Kg, dry wt. 250 2-Methylnapthalene Not Detected μg/Kg, dry wt. 11/13/19 BD Naphthalene Not Detected 250 11/13/19 BD μg/Kg, dry wt. n-Propylbenzene Not Detected 100 μg/Kg, dry wt. 11/13/19 BD Not Detected 50 11/13/19 BD Styrene μg/Kg, dry wt. 100 BD 1,1,1,2-Tetrachloroethane Not Detected μg/Kg, dry wt. 11/13/19 1,1,2,2-Tetrachloroethane Not Detected 50 11/13/19 BD μg/Kg, dry wt. Tetrachloroethylene Not Detected 50 μg/Kg, dry wt. 11/13/19 BD Tetrahydrofuran 1,000 BD Not Detected 11/13/19 μg/Kg, dry wt. Not Detected 100 11/13/19 BD Toluene μg/Kg, dry wt. BD 1,2,3-Trichlorobenzene Not Detected 250 μg/Kg, dry wt. 11/13/19 250 1,2,4-Trichlorobenzene Not Detected 11/13/19 BD μg/Kg, dry wt. 1,1,1-Trichloroethane Not Detected 50 μg/Kg, dry wt. 11/13/19 BD 1,1,2-Trichloroethane Not Detected 50 μg/Kg, dry wt. 11/13/19 BD Not Detected Trichloroethylene 50 μg/Kg, dry wt. 11/13/19 BD Trichlorofluoromethane Not Detected 100 μg/Kg, dry wt. 11/13/19 BD 1,2,3-Trichloropropane Not Detected 100 μg/Kg, dry wt. 11/13/19 BD 100 BD 1,2,4-Trimethylbenzene Not Detected μg/Kg, dry wt. 11/13/19 1,3,5-Trimethylbenzene Not Detected 100 μg/Kg, dry wt. 11/13/19 BD Vinyl Acetate Not Detected 5,000 μg/Kg, dry wt. 11/13/19 BD 40 Vinyl Chloride Not Detected μg/Kg, dry wt. 11/13/19 BD Xylene (Total) Not Detected 150 11/13/19 BD μg/Kg, dry wt. Surrogate Standards 1,2-Dichloroethane-d4 117% % Recovery 11/13/19 BD Toluene-d8 107% BD % Recovery 11/13/19

4-Bromofluorobenzene

continued

105%

% Recovery

BD

11/13/19

Result is from a dilution
Result should be considered estimated D

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-16d, 11/7/19						
Laboratory ID:	10829-19	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	51.3%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	61.7%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	69.7%	-	% Recovery	11/13/19	BD		
Michigan Metals							
Arsenic	628	100	μg/Kg, dry wt.	11/14/19	DS		
Barium	49,800	1,000	μg/Kg, dry wt.	11/12/19	DS		
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS		
Chromium	7,560	2,000	μg/Kg, dry wt.	11/12/19	DS		
Copper	9,420	1,000	μg/Kg, dry wt.	11/12/19	DS		
Lead	6,950	1,000	μg/Kg, dry wt.	11/12/19	DS		
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS		
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS		
Zinc	23,400	1,000	μg/Kg, dry wt.	11/12/19	DS		
Analysis Information							
Dry Weight Solids	77.3%	-	% by weight	11/11/19	LB		
PNA Extraction	Completed	-	-	11/13/19	LB		
Mercury Digestion	Completed	-	-	11/13/19	LB		
Metals Digestion	Completed	-	-	11/12/19	LB		

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Matrix interference observed



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Sample Description:	B-17s, 11/7/19					
Laboratory ID:	10829-20	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-17s, 11/7/19						
Laboratory ID:	10829-20	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOC's, Cont'd							
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD		
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD		
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD		
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	119%	-	% Recovery	11/13/19	BD		
Toluene-d8	107%	-	% Recovery	11/13/19	BD		
4-Bromofluorobenzene	105%	-	% Recovery	11/13/19	BD		
continued							

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-17s, 11/7/19						
Laboratory ID:	10829-20	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	55.2%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	57.7%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	69.2%	-	% Recovery	11/13/19	BD		
Michigan Metals							
Arsenic	172	100	μg/Kg, dry wt.	11/14/19	DS		
Barium	64,000	1,000	μg/Kg, dry wt.	11/12/19	DS		
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS		
Chromium	6,270	2,000	μg/Kg, dry wt.	11/12/19	DS		
Copper	5,990	1,000	μg/Kg, dry wt.	11/12/19	DS		
Lead	5,800	1,000	μg/Kg, dry wt.	11/12/19	DS		
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	11/12/19	DS		
Silver	Not Detected	100	μg/Kg, dry wt.	11/12/19	DS		
Zinc	12,200	1,000	μg/Kg, dry wt.	11/12/19	DS		
Analysis Information							
Dry Weight Solids	81.2%	-	% by weight	11/11/19	LB		
PNA Extraction	Completed	-	-	11/13/19	LB		
Mercury Digestion	Completed	-	-	11/13/19	LB		
Metals Digestion	Completed	-	-	11/12/19	LB		

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J



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Sample Description:	B-17d, 11/7/19					
Laboratory ID:	10829-21	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-17d, 11/7/19						
Laboratory ID:	10829-21	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOC's, Cont'd							
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD		
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD		
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD		
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	111%	-	% Recovery	11/13/19	BD		
Toluene-d8	106%	-	% Recovery	11/13/19	BD		
4-Bromofluorobenzene	106%	-	% Recovery	11/13/19	BD		
continued							

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-17d, 11/7/19						
Laboratory ID:	10829-21	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	44.6%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	55.5%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	65.7%	-	% Recovery	11/13/19	BD		
Michigan Metals							
Arsenic	160	100	μg/Kg, dry wt.	11/14/19	DS		
Barium	31,400	1,000	μg/Kg, dry wt.	11/14/19	DS		
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS		
Chromium	7,210	2,000	μg/Kg, dry wt.	11/14/19	DS		
Copper	4,540	1,000	μg/Kg, dry wt.	11/14/19	DS		
Lead	5,670	1,000	μg/Kg, dry wt.	11/14/19	DS		
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS		
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS		
Zinc	14,200	1,000	μg/Kg, dry wt.	11/14/19	DS		
Analysis Information							
Dry Weight Solids	80.2%	-	% by weight	11/11/19	LB		
PNA Extraction	Completed	-	-	11/13/19	LB		
Mercury Digestion	Completed	-	-	11/13/19	LB		
Metals Digestion	Completed	-	-	11/12/19	LB		

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J



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Sample Description:	B-17/TMW, 1	1/7/19				
Laboratory ID:	10829-22	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	11/11/19	BD	
Benzene	Not Detected	1	μg/L	11/11/19	BD	
Bromobenzene	Not Detected	1	μg/L	11/11/19	BD	
Bromochloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromodichloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromoform	Not Detected	1	μg/L	11/11/19	BD	
Bromomethane	Not Detected	5	μg/L	11/11/19	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	11/11/19	BD	
n-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
sec-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
tert-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Carbon disulfide	Not Detected	5	μg/L	11/11/19	BD	
Carbon tetrachloride	Not Detected	1	μg/L	11/11/19	BD	
Chlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Chloroethane	Not Detected	5	μg/L	11/11/19	BD	
Chloroform	Not Detected	1	μg/L	11/11/19	BD	
Chloromethane	Not Detected	5	μg/L	11/11/19	BD	
2-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
4-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
Dibromochloromethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	11/11/19	BD	
Dibromomethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	11/11/19	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,3-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
continued			·			

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-17/TMW, 1	1/7/19				
Laboratory ID:	10829-22	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	11/11/19	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	11/11/19	BD	
2-Hexanone	Not Detected	50	μg/L	11/11/19	BD	
Isopropyl benzene	Not Detected	5	μg/L	11/11/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	11/11/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	11/11/19	BD	
Methylene chloride	Not Detected	5	μg/L	11/11/19	BD	
2-Methylnapthalene	Not Detected	5	μg/L	11/11/19	BD	
Naphthalene	Not Detected	5	μg/L	11/11/19	BD	
n-Propyl benzene	Not Detected	1	μg/L	11/11/19	BD	
Styrene	Not Detected	1	μg/L	11/11/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD	
Tetrachloroethylene	Not Detected	1	μg/L	11/11/19	BD	
Tetrahydrofuran	Not Detected	90	μg/L	11/11/19	BD	
Toluene	Not Detected	1	μg/L	11/11/19	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD	
Trichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	11/11/19	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Vinyl Acetate	Not Detected	100	μg/L	11/11/19	BD	
Vinyl chloride	Not Detected	1	μg/L	11/11/19	BD	
Xylene (Total)	Not Detected	3	μg/L	11/11/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	124%	-	% Recovery	11/11/19	BD	
Toluene-d8	106%	-	% Recovery	11/11/19	BD	
4-Bromofluorobenzene	100%	-	% Recovery	11/11/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-17/TMW, 1	1/7/19				
Laboratory ID:	10829-22	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	5	μg/L	11/08/19	BD	
Acenaphthylene	Not Detected	5	μg/L	11/08/19	BD	
Anthracene	Not Detected	5	μg/L	11/08/19	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	11/08/19	BD	
Chrysene	Not Detected	1	μg/L	11/08/19	BD	
Dibenz(a,h)anthracene	Not Detected	2	μg/L	11/08/19	BD	
Fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Fluorene	Not Detected	5	μg/L	11/08/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	11/08/19	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
Phenanthrene	Not Detected	2	μg/L	11/08/19	BD	
Pyrene	Not Detected	5	μg/L	11/08/19	BD	
Surrogate Standards						
Nitrobenzene-d5	72.6%	-	% Recovery	11/08/19	BD	
2-Fluorobiphenyl	78.8%	-	% Recovery	11/08/19	BD	
Terphenyl-d14	77.3%	-	% Recovery	11/08/19	BD	
Analysis Information						
PNA Extraction	Completed			11/08/19	B/DS	



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Sample Description:	B-18s, 11/7/19					
Laboratory ID:	10829-23	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-18s, 11/7/1	19				
Laboratory ID:	10829-23	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	114%	-	% Recovery	11/13/19	BD	
Toluene-d8	106%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	104%	-	% Recovery	11/13/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-18s, 11/7/1	9				
Laboratory ID:	10829-23	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	49.1%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	51.3%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	64.6%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	226	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	103,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	11,500	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	5,230	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	8,610	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	21,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	83.6%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-18d, 11/7/1	19				
Laboratory ID:	10829-24	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- E D J
- Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-18d, 11/7/1	19				
Laboratory ID:	10829-24	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards			-			
1,2-Dichloroethane-d4	114%	_	% Recovery	11/13/19	BD	
Toluene-d8	106%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	103%	-	% Recovery	11/13/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J



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Sample Description:	B-18d, 11/7/1	19				
Laboratory ID:	10829-24	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	43.4%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	50.5%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	69.3%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	266	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	111,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	204	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	13,700	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	7,460	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	5,240	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	23,800	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	81.1%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-19s, 11/7/1	19				
Laboratory ID:	10829-25	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



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Sample Description:	B-19s, 11/7/1	19				
Laboratory ID:	10829-25	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	111%	-	% Recovery	11/13/19	BD	
Toluene-d8	107%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	104%	-	% Recovery	11/13/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-19s, 11/7/1	9				
Laboratory ID:	10829-25	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	42.8%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	47.0%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	60.0%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	156	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	111,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	12,800	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	8,210	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	7,710	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	25,800	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	78.0%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- E D J

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-19d, 11/7/1	19				
Laboratory ID:	10829-26	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description: B-19d, 11/7/19 Reporting Units of Data Date of 10829-26 Laboratory ID: Analyst Limit Measure **Analysis** Qualifiers VOC's, Cont'd Ethylbenzene Not Detected 50 11/13/19 BD μg/Kg, dry wt. 20 Ethylene Dibromide (1,2-Dibromoethane) Not Detected μg/Kg, dry wt. 11/13/19 BD Hexachlorobutadiene 50 BD Not Detected μg/Kg, dry wt. 11/13/19 2-Hexanone Not Detected 2,500 μg/Kg, dry wt. 11/13/19 BD Isopropyl benzene Not Detected 250 μg/Kg, dry wt. 11/13/19 BD BD 4-Methyl-2-pentanone (MIBK) Not Detected 2,500 μg/Kg, dry wt. 11/13/19 Methyl-t-butyl ether (MTBE) Not Detected 250 11/13/19 BD μg/Kg, dry wt. Methylene chloride Not Detected 250 11/13/19 BD μg/Kg, dry wt. 2-Methylnapthalene Not Detected 250 μg/Kg, dry wt. 11/13/19 BD Naphthalene Not Detected 250 11/13/19 BD μg/Kg, dry wt. n-Propylbenzene Not Detected 100 μg/Kg, dry wt. 11/13/19 BD Not Detected 50 11/13/19 BD Styrene μg/Kg, dry wt. 100 BD 1,1,1,2-Tetrachloroethane Not Detected μg/Kg, dry wt. 11/13/19 1,1,2,2-Tetrachloroethane Not Detected 50 11/13/19 BD μg/Kg, dry wt. Tetrachloroethylene Not Detected 50 μg/Kg, dry wt. 11/13/19 BD Tetrahydrofuran 1,000 BD Not Detected 11/13/19 μg/Kg, dry wt. Not Detected 100 11/13/19 BD Toluene μg/Kg, dry wt. 1,2,3-Trichlorobenzene Not Detected 250 μg/Kg, dry wt. 11/13/19 BD 250 1,2,4-Trichlorobenzene Not Detected 11/13/19 BD μg/Kg, dry wt. 1,1,1-Trichloroethane Not Detected 50 μg/Kg, dry wt. 11/13/19 BD 1,1,2-Trichloroethane Not Detected 50 μg/Kg, dry wt. 11/13/19 BD Not Detected Trichloroethylene 50 μg/Kg, dry wt. 11/13/19 BD Trichlorofluoromethane Not Detected 100 μg/Kg, dry wt. 11/13/19 BD 1,2,3-Trichloropropane Not Detected 100 μg/Kg, dry wt. 11/13/19 BD 100 BD 1,2,4-Trimethylbenzene Not Detected μg/Kg, dry wt. 11/13/19 1,3,5-Trimethylbenzene Not Detected 100 μg/Kg, dry wt. 11/13/19 BD Vinyl Acetate Not Detected 5,000 μg/Kg, dry wt. 11/13/19 BD 40 Vinyl Chloride Not Detected μg/Kg, dry wt. 11/13/19 BD Xylene (Total) Not Detected 150 11/13/19 BD μg/Kg, dry wt. Surrogate Standards 1,2-Dichloroethane-d4 114% % Recovery 11/13/19 BD Toluene-d8 107% BD % Recovery 11/13/19 4-Bromofluorobenzene 108% % Recovery 11/13/19 BD continued

S QC spike recovery outside of acceptance limits R PD outside of acceptance limits

C See Case Narrative

Internal Standard results outside of acceptance limits

E Reporting limit is elevated D Result is from a dilution

D Result is from a dilution

Result should be considered estimated

M Matrix interference observed F Matrix Spike four times rule applied



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Sample Description:	B-19d, 11/7/1	19				
Laboratory ID:	10829-26	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	48.7%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	51.7%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	73.3%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	111,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	11,900	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	6,520	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	8,040	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	26,200	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	81.1%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J



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Sample Description:	B-19/TMW, 11/7/19						
Laboratory ID:	10829-27	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	50	μg/L	11/11/19	BD		
Benzene	Not Detected	1	μg/L	11/11/19	BD		
Bromobenzene	Not Detected	1	μg/L	11/11/19	BD		
Bromochloromethane	Not Detected	1	μg/L	11/11/19	BD		
Bromodichloromethane	Not Detected	1	μg/L	11/11/19	BD		
Bromoform	Not Detected	1	μg/L	11/11/19	BD		
Bromomethane	Not Detected	5	μg/L	11/11/19	BD		
2-Butanone (MEK)	Not Detected	25	μg/L	11/11/19	BD		
n-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD		
sec-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD		
tert-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD		
Carbon disulfide	Not Detected	5	μg/L	11/11/19	BD		
Carbon tetrachloride	Not Detected	1	μg/L	11/11/19	BD		
Chlorobenzene	Not Detected	1	μg/L	11/11/19	BD		
Chloroethane	Not Detected	5	μg/L	11/11/19	BD		
Chloroform	Not Detected	1	μg/L	11/11/19	BD		
Chloromethane	Not Detected	5	μg/L	11/11/19	BD		
2-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD		
4-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD		
Dibromochloromethane	Not Detected	5	μg/L	11/11/19	BD		
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	11/11/19	BD		
Dibromomethane	Not Detected	5	μg/L	11/11/19	BD		
1,2-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD		
1,3-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD		
1,4-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD		
Dichlorodifluoromethane	Not Detected	5	μg/L	11/11/19	BD		
1,1-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD		
1,2-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD		
1,1-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD		
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD		
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD		
1,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD		
1,3-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD		
2,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD		
1,1-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD		
cis-1,3-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description: B-19/TMW, 11/7/19 Reporting Units of Data Date of 10829-27 Laboratory ID: Analyst Limit Measure **Analysis** Qualifiers VOC's, Cont'd Ethylbenzene Not Detected 1 11/11/19 BD μg/L Ethylene Dibromide (1,2-Dibromoethane) Not Detected 0.2 11/11/19 BD μg/L Hexachlorobutadiene Not Detected 0.2 11/11/19 BD μg/L 2-Hexanone Not Detected 50 μg/L 11/11/19 BD Isopropyl benzene Not Detected 5 11/11/19 BD μg/L 50 4-Methyl-2-pentanone (MIBK) Not Detected 11/11/19 BD μg/L Methyl-t-butyl ether (MTBE) Not Detected 5 11/11/19 BD μg/L Methylene chloride Not Detected 5 11/11/19 BD μg/L 5 2-Methylnapthalene Not Detected BD μg/L 11/11/19 Naphthalene Not Detected 5 11/11/19 BD μg/L n-Propyl benzene Not Detected 1  $\mu g/L$ 11/11/19 BD 1 11/11/19 BD Styrene Not Detected μg/L 1 BD 1,1,1,2-Tetrachloroethane Not Detected 11/11/19 μg/L 1,1,2,2-Tetrachloroethane 1  $\mu$ g/L 11/11/19 BD Not Detected Tetrachloroethylene Not Detected 1 μg/L 11/11/19 BD Tetrahydrofuran 90 BD Not Detected 11/11/19 μg/L Not Detected 1 11/11/19 BD Toluene μg/L 5 1,2,3-Trichlorobenzene Not Detected  $\mu$ g/L 11/11/19 BD 1,2,4-Trichlorobenzene 5 Not Detected 11/11/19 BD μg/L 1 1,1,1-Trichloroethane Not Detected 11/11/19 BD μg/L 1,1,2-Trichloroethane Not Detected 1 11/11/19 BD μg/L Trichloroethylene Not Detected 1 11/11/19 BD μg/L Trichlorofluoromethane Not Detected 1 11/11/19 BD μg/L 1,2,3-Trichloropropane Not Detected 1 11/11/19 BD μg/L 1 BD 1,2,4-Trimethylbenzene Not Detected 11/11/19 μg/L 1,3,5-Trimethylbenzene Not Detected 1 μg/L 11/11/19 BD Vinyl Acetate Not Detected 100 11/11/19 BD μg/L Vinyl chloride Not Detected 1 11/11/19 BD μg/L Xylene (Total) Not Detected 3 11/11/19 BD μg/L Surrogate Standards 1,2-Dichloroethane-d4 129% % Recovery 11/11/19 BD Toluene-d8 105% % Recovery BD 11/11/19 4-Bromofluorobenzene 101% % Recovery 11/11/19 BD

continued

F Matrix Spike four times rule applied
 C See Case Narrative



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Sample Description:	B-19/TMW, 1	1/7/19				
Laboratory ID:	10829-27	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	5	μg/L	11/08/19	BD	
Acenaphthylene	Not Detected	5	μg/L	11/08/19	BD	
Anthracene	Not Detected	5	μg/L	11/08/19	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	11/08/19	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	11/08/19	BD	
Chrysene	Not Detected	1	μg/L	11/08/19	BD	
Dibenz(a,h)anthracene	Not Detected	2	μg/L	11/08/19	BD	
Fluoranthene	Not Detected	1	μg/L	11/08/19	BD	
Fluorene	Not Detected	5	μg/L	11/08/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	11/08/19	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	11/08/19	BD	
Naphthalene	Not Detected	5	μg/L	11/08/19	BD	
Phenanthrene	Not Detected	2	μg/L	11/08/19	BD	
Pyrene	Not Detected	5	μg/L	11/08/19	BD	
Surrogate Standards						
Nitrobenzene-d5	76.1%	-	% Recovery	11/08/19	BD	
2-Fluorobiphenyl	77.1%	-	% Recovery	11/08/19	BD	
Terphenyl-d14	78.8%	-	% Recovery	11/08/19	BD	
Analysis Information						
PNA Extraction	Completed	-	-	11/08/19	BD/DS	



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Sample Description:	B-20s, 11/7/1	19				
Laboratory ID:	10829-28	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-20s, 11/7/1	9				
Laboratory ID:	10829-28	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	113%	-	% Recovery	11/13/19	BD	
Toluene-d8	107%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	106%	-	% Recovery	11/13/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-20s, 11/7/19						
Laboratory ID:	10829-28	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	47.6%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	56.8%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	72.2%	-	% Recovery	11/13/19	BD		
Michigan Metals							
Arsenic	270	100	μg/Kg, dry wt.	11/14/19	DS		
Barium	40,300	1,000	μg/Kg, dry wt.	11/14/19	DS		
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS		
Chromium	8,380	2,000	μg/Kg, dry wt.	11/14/19	DS		
Copper	4,700	1,000	μg/Kg, dry wt.	11/14/19	DS		
Lead	3,580	1,000	μg/Kg, dry wt.	11/14/19	DS		
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS		
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS		
Zinc	32,000	1,000	μg/Kg, dry wt.	11/14/19	DS		
Analysis Information							
Dry Weight Solids	80.7%	-	% by weight	11/11/19	LB		
PNA Extraction	Completed	-	-	11/13/19	LB		
Mercury Digestion	Completed	-	-	11/13/19	LB		
Metals Digestion	Completed	-	-	11/12/19	LB		

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J



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Sample Description:	B-20d, 11/7/1	19				
Laboratory ID:	10829-29	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-20d, 11/7/1	19				
Laboratory ID:	10829-29	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	112%	-	% Recovery	11/13/19	BD	
Toluene-d8	106%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	108%	-	% Recovery	11/13/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed



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Sample Description:	B-20d, 11/7/1	19				
Laboratory ID:	10829-29	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	53.2%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	62.5%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	73.4%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	214	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	86,700	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	11,700	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	3,950	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	6,520	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	23,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	83.0%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-21s, 11/7/1	19				
Laboratory ID:	10829-30	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-21s, 11/7/1	9				
Laboratory ID:	10829-30	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	112%	-	% Recovery	11/13/19	BD	
Toluene-d8	105%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	107%	-	% Recovery	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-21s, 11/7/19						
Laboratory ID:	10829-30	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	47.0%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	59.8%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	74.8%	-	% Recovery	11/13/19	BD		
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/15/19	DS		
Surrogate Standards							
Tetrachloro-m-xylene	89.7%	-	% Recovery	11/15/19	DS		
Decachlorobiphenyl	121%	-	% Recovery	11/15/19	DS		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



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Sample Description:	B-21s, 11/7/1	B-21s, 11/7/19						
Laboratory ID:	10829-30	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers		
Michigan Metals								
Arsenic	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS			
Barium	111,000	1,000	μg/Kg, dry wt.	11/14/19	DS			
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS			
Chromium	12,800	2,000	μg/Kg, dry wt.	11/14/19	DS			
Copper	7,410	1,000	μg/Kg, dry wt.	11/14/19	DS			
Lead	2,640	1,000	μg/Kg, dry wt.	11/14/19	DS			
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS			
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS			
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS			
Zinc	30,800	1,000	μg/Kg, dry wt.	11/14/19	DS			
Analysis Information								
Dry Weight Solids	82.1%	-	% by weight	11/11/19	LB			
PCB Extraction	Completed	-	-	11/15/19	DS			
PNA Extraction	Completed	-	-	11/13/19	LB			
Mercury Digestion	Completed	-	-	11/13/19	LB			
Metals Digestion	Completed	-	-	11/12/19	LB			



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Sample Description:	B-21d, 11/7/19						
Laboratory ID:	10829-31	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD		
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD		
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD		
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD		
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

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Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



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Sample Description:	B-21d, 11/7/19						
Laboratory ID:	10829-31	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOC's, Cont'd							
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD		
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD		
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD		
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	115%	-	% Recovery	11/13/19	BD		
Toluene-d8	108%	-	% Recovery	11/13/19	BD		
4-Bromofluorobenzene	105%	-	% Recovery	11/13/19	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



Report Date: Project Name: Project Number: Page: 10829

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Sample Description:	B-21d, 11/7/19						
Laboratory ID:	10829-31	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	46.4%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	55.1%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	73.9%	-	% Recovery	11/13/19	BD		
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/15/19	DS		
Surrogate Standards							
Tetrachloro-m-xylene	91.0%	-	% Recovery	11/15/19	DS		
Decachlorobiphenyl	111%	-	% Recovery	11/15/19	DS		
Analysis Information							
Dry Weight Solids	85.0%	-	% by weight	11/11/19	LB		
PCB Extraction	Completed	-	-	11/15/19	DS		
PNA Extraction	Completed	-	-	11/13/19	LB		

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	B-22s, 11/7/19					
Laboratory ID:	10829-32	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	B-22s, 11/7/19						
Laboratory ID:	10829-32	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOC's, Cont'd							
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD		
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD		
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD		
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	115%	-	% Recovery	11/13/19	BD		
Toluene-d8	107%	-	% Recovery	11/13/19	BD		
4-Bromofluorobenzene	105%	-	% Recovery	11/13/19	BD		
continued							

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10829

November 18, 2019 Flint Wade Trim 14535s 100 of 149

Sample Description:	B-22s, 11/7/19						
Laboratory ID:	10829-32	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	53.3%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	52.8%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	73.6%	-	% Recovery	11/13/19	BD		
Michigan Metals							
Arsenic	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS		
Barium	18,700	1,000	μg/Kg, dry wt.	11/14/19	DS		
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS		
Chromium	2,740	2,000	μg/Kg, dry wt.	11/14/19	DS		
Copper	1,100	1,000	μg/Kg, dry wt.	11/14/19	DS		
Lead	5,080	1,000	μg/Kg, dry wt.	11/14/19	DS		
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS		
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS		
Zinc	10,200	1,000	μg/Kg, dry wt.	11/14/19	DS		
Analysis Information							
Dry Weight Solids	92.9%	-	% by weight	11/11/19	LB		
PNA Extraction	Completed	-	-	11/13/19	LB		
Mercury Digestion	Completed	-	-	11/13/19	LB		
Metals Digestion	Completed	-	-	11/12/19	LB		

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- E D J
- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

10829 November 18, 2019

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Sample Description:	B-22d, 11/7/19						
Laboratory ID:	10829-33	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD		
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD		
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD		
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD		
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



Report Date: Project Name: Project Number: Page: 10829

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Sample Description:	B-22d, 11/7/19						
Laboratory ID:	10829-33	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOC's, Cont'd							
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD		
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD		
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD		
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD		
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD		
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD		
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	114%	-	% Recovery	11/13/19	BD		
Toluene-d8	106%	-	% Recovery	11/13/19	BD		
4-Bromofluorobenzene	106%	-	% Recovery	11/13/19	BD		
continued							

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-22d, 11/7/1	19				
Laboratory ID:	10829-33	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	63.0%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	62.1%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	77.2%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	111,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	977	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	14,700	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	25,500	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	59,400	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	188	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	70,400	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	67.6%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Internal Standard results outside of acceptance limits

E D J

Matrix interference observed

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-23s, 11/7/1	19				
Laboratory ID:	10829-34	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-23s, 11/7/1	9				
Laboratory ID:	10829-34	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	114%	-	% Recovery	11/13/19	BD	
Toluene-d8	107%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	105%	-	% Recovery	11/13/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed



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Sample Description:	B-23s, 11/7/1	9				
Laboratory ID:	10829-34	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	55.7%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	60.5%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	70.1%	-	% Recovery	11/13/19	BD	
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/15/19	DS	
Surrogate Standards						
Tetrachloro-m-xylene	91.5%	-	% Recovery	11/15/19	DS	
Decachlorobiphenyl	120%	-	% Recovery	11/15/19	DS	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-23s, 11/7/1	9				
Laboratory ID:	10829-34	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Michigan Metals						
Arsenic	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	13,500	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	3,390	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	2,990	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	3,910	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	264	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	11,400	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	86.7%	-	% by weight	11/11/19	LB	
PCB Extraction	Completed	-	-	11/15/19	DS	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed			11/12/19	LB	



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Sample Description:	B-23d, 11/7/1	19				
Laboratory ID:	10829-35	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-23d, 11/7/	19				
Laboratory ID:	10829-35	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	117%	-	% Recovery	11/13/19	BD	
Toluene-d8	106%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	106%	-	% Recovery	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-23d, 11/7/19						
Laboratory ID:	10829-35	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	56.3%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	60.9%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	75.0%	-	% Recovery	11/13/19	BD		
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/15/19	DS		
Surrogate Standards							
Tetrachloro-m-xylene	88.5%	-	% Recovery	11/15/19	DS		
Decachlorobiphenyl	126%	-	% Recovery	11/15/19	DS		
continued							

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-23d, 11/7/1	19				
Laboratory ID:	10829-35	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Michigan Metals						
Arsenic	254	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	7,700	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	Not Detected	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	2,240	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	2,210	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	11,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	79.0%	-	% by weight	11/11/19	LB	
PCB Extraction	Completed	-	-	11/15/19	DS	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed			11/12/19	LB	



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Sample Description:	B-24s, 11/7/1	19				
Laboratory ID:	10829-36	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-24s, 11/7/1	9				
Laboratory ID:	10829-36	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	11/13/19	BD	
Toluene-d8	105%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	106%	-	% Recovery	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description: B-24s, 11/7/19 Units of Data Reporting Date of 10829-36 Laboratory ID: Analyst Limit Measure **Analysis** Qualifiers **PNAs** Acenaphthene Not Detected 330 11/13/19 BD μg/Kg, dry wt. Acenaphthylene Not Detected 330 μg/Kg, dry wt. 11/13/19 BD Not Detected 330 Anthracene 11/13/19 BD μg/Kg, dry wt. Benzo(a)anthracene Not Detected 330 μg/Kg, dry wt. 11/13/19 BD Benzo(b)fluoranthene Not Detected 330 μg/Kg, dry wt. 11/13/19 BD Benzo(k)fluoranthene Not Detected 330 μg/Kg, dry wt. BD 11/13/19 Benzo(g,h,i)perylene Not Detected 330 11/13/19 BD μg/Kg, dry wt. Benzo(a)pyrene Not Detected 330 11/13/19 BD μg/Kg, dry wt. Chrysene Not Detected 330 BD μg/Kg, dry wt. 11/13/19 Dibenz(a,h)anthracene Not Detected 330 11/13/19 BD μg/Kg, dry wt. Fluoranthene Not Detected 330 μg/Kg, dry wt. 11/13/19 BD Fluorene Not Detected 330 BD μg/Kg, dry wt. 11/13/19 330 BD Indeno(1,2,3-cd)pyrene Not Detected 11/13/19 μg/Kg, dry wt. 2-Methylnaphthalene Not Detected 330 11/13/19 BD μg/Kg, dry wt. Naphthalene Not Detected 330 μg/Kg, dry wt. 11/13/19 BD Phenanthrene Not Detected 330 BD 11/13/19 μg/Kg, dry wt. Pyrene Not Detected 330  $\mu g/Kg$ , dry wt. 11/13/19 BD Surrogate Standards Nitrobenzene-d5 63.7% % Recovery 11/13/19 BD 2-Fluorobiphenyl 70.3% % Recovery 11/13/19 BD Terphenyl-d14 86.1% % Recovery 11/13/19 BD Michigan Metals Arsenic Not Detected 100 11/14/19 DS μg/Kg, dry wt. Barium 18.700 1,000 11/14/19 DS μg/Kg, dry wt. Cadmium Not Detected 200 11/14/19 DS μg/Kg, dry wt. Chromium 3.000 2,000 11/14/19 DS μg/Kg, dry wt. Copper 1.550 1.000 11/14/19 DS μg/Kg, dry wt. 4,790 1,000 11/14/19 DS Lead μg/Kg, dry wt. Not Detected 50 11/13/19 DS Mercury μg/Kg, dry wt. Selenium Not Detected 200  $\mu g/Kg$ , dry wt. 11/14/19 DS Silver Not Detected 100 DS μg/Kg, dry wt. 11/14/19 Zinc 11.800 1.000 DS 11/14/19 μg/Kg, dry wt. Analysis Information Dry Weight Solids 91.3% % by weight 11/11/19 LB **PNA Extraction** LB Completed 11/13/19 LB Mercury Digestion Completed 11/13/19 Metals Digestion Completed 11/12/19 LB

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

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Reporting limit is elevated Result is from a dilution
Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

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Matrix interference observed



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Sample Description:	B-24d, 11/7/1	19				
Laboratory ID:	10829-37	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued			<del>-</del>			

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-24d, 11/7/1	19				
Laboratory ID:	10829-37	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	11/13/19	BD	
Toluene-d8	107%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	107%	-	% Recovery	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-24d, 11/7/1	B-24d, 11/7/19						
Laboratory ID:	10829-37	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers		
PNAs								
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD			
Surrogate Standards								
Nitrobenzene-d5	56.1%	-	% Recovery	11/13/19	BD			
2-Fluorobiphenyl	63.2%	-	% Recovery	11/13/19	BD			
Terphenyl-d14	77.2%	-	% Recovery	11/13/19	BD			
Michigan Metals								
Arsenic	336	100	μg/Kg, dry wt.	11/14/19	DS			
Barium	13,400	1,000	μg/Kg, dry wt.	11/14/19	DS			
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS			
Chromium	2,410	2,000	μg/Kg, dry wt.	11/14/19	DS			
Copper	2,170	1,000	μg/Kg, dry wt.	11/14/19	DS			
Lead	4,790	1,000	μg/Kg, dry wt.	11/14/19	DS			
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS			
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS			
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS			
Zinc	8,200	1,000	μg/Kg, dry wt.	11/14/19	DS			
Analysis Information								
Dry Weight Solids	94.9%	-	% by weight	11/11/19	LB			
PNA Extraction	Completed	-	-	11/13/19	LB			
Mercury Digestion	Completed	-	-	11/13/19	LB			
Metals Digestion	Completed	-	-	11/12/19	LB			

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



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Sample Description:	B-25s, 11/7/1	19				
Laboratory ID:	10829-38	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-25s, 11/7/1	9				
Laboratory ID:	10829-38	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	115%	-	% Recovery	11/13/19	BD	
Toluene-d8	105%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	105%	-	% Recovery	11/13/19	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed



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Sample Description:	B-25s, 11/7/1	9				
Laboratory ID:	10829-38	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	59.1%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	67.5%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	80.7%	-	% Recovery	11/13/19	BD	
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/15/19	DS	
Surrogate Standards						
Tetrachloro-m-xylene	88.0%	-	% Recovery	11/15/19	DS	
Decachlorobiphenyl	122%	-	% Recovery	11/15/19	DS	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-25s, 11/7/1	9				
Laboratory ID:	10829-38	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Michigan Metals						
Arsenic	636	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	31,700	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	5,440	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	7,490	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	5,780	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	25,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	82.0%	-	% by weight	11/11/19	LB	
PCB Extraction	Completed	-	-	11/15/19	DS	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed		-	11/12/19	LB	



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Sample Description:	B-25d, 11/7/1	19				
Laboratory ID:	10829-39	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-25d, 11/7/	19				
Laboratory ID:	10829-39	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	11/13/19	BD	
Toluene-d8	106%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	107%	-	% Recovery	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-25d, 11/7/19						
Laboratory ID:	10829-39	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PNAs							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD		
Surrogate Standards							
Nitrobenzene-d5	47.3%	-	% Recovery	11/13/19	BD		
2-Fluorobiphenyl	54.8%	-	% Recovery	11/13/19	BD		
Terphenyl-d14	73.6%	-	% Recovery	11/13/19	BD		
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	11/15/19	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	11/15/19	DS		
Surrogate Standards							
Tetrachloro-m-xylene	88.5%	-	% Recovery	11/15/19	DS		
Decachlorobiphenyl	123%	-	% Recovery	11/15/19	DS		
continued							

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-25d, 11/7/1	B-25d, 11/7/19							
Laboratory ID:	10829-39	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers			
Michigan Metals									
Arsenic	1,630	100	μg/Kg, dry wt.	11/14/19	DS				
Barium	18,000	1,000	μg/Kg, dry wt.	11/14/19	DS				
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS				
Chromium	3,350	2,000	μg/Kg, dry wt.	11/14/19	DS				
Copper	4,270	1,000	μg/Kg, dry wt.	11/14/19	DS				
Lead	4,340	1,000	μg/Kg, dry wt.	11/14/19	DS				
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS				
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS				
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS				
Zinc	18,600	1,000	μg/Kg, dry wt.	11/14/19	DS				
Analysis Information									
Dry Weight Solids	86.3%	-	% by weight	11/11/19	LB				
PCB Extraction	Completed	-	-	11/15/19	DS				
PNA Extraction	Completed	-	-	11/13/19	LB				
Mercury Digestion	Completed	-	-	11/13/19	LB				
Metals Digestion	Completed	-	-	11/12/19	LB				



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Sample Description:	B-26s, 11/6/1	19				
Laboratory ID:	10829-40	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-26s, 11/6/1	19				
Laboratory ID:	10829-40	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	115%	-	% Recovery	11/13/19	BD	
Toluene-d8	107%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	105%	-	% Recovery	11/13/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-26s, 11/6/1	19				
Laboratory ID:	10829-40	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards			, , ,			
Nitrobenzene-d5	50.9%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	63.2%	_	% Recovery	11/13/19	BD	
Terphenyl-d14	76.5%	_	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	111,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	297	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	10,600	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	8,080	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	9,320	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	22,200	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	85.9%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	_	-	11/13/19	LB	
Mercury Digestion	Completed	_	-	11/13/19	LB	
Metals Digestion	Completed	_	_	11/12/19	LB	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



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Sample Description:	B-26d, 11/6/1	19				
Laboratory ID:	10829-41	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-26d, 11/6/1	19				
Laboratory ID:	10829-41	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	11/13/19	BD	
Toluene-d8	106%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	108%	-	% Recovery	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-26d, 11/6/1	19				
Laboratory ID:	10829-41	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	74.8%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	72.3%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	86.4%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	111,000	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	288	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	9,230	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	6,450	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	19,300	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	23,400	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	86.1%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed



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Sample Description:	B-27s, 11/6/1	19				
Laboratory ID:	10829-42	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated E D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-27s, 11/6/1	9				
Laboratory ID:	10829-42	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	11/13/19	BD	
Toluene-d8	107%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	106%	-	% Recovery	11/13/19	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-27s, 11/6/1	9				
Laboratory ID:	10829-42	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	56.5%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	64.0%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	82.7%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	1,010	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	31,600	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	5,100	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	4,060	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	7,660	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	17,200	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	75.2%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	B-27d, 11/6/1	19				
Laboratory ID:	10829-43	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	11/13/19	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	11/13/19	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	11/13/19	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
cis-1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-27d, 11/6/1	19				
Laboratory ID:	10829-43	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	11/13/19	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	11/13/19	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	11/13/19	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	11/13/19	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	11/13/19	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	11/13/19	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	11/13/19	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	114%	-	% Recovery	11/13/19	BD	
Toluene-d8	107%	-	% Recovery	11/13/19	BD	
4-Bromofluorobenzene	105%	-	% Recovery	11/13/19	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Internal Standard results outside of acceptance limits

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

E D J

Matrix interference observed



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Sample Description:	B-27d, 11/6/1	19				
Laboratory ID:	10829-43	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Dibenz(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	11/13/19	BD	
Surrogate Standards						
Nitrobenzene-d5	50.0%	-	% Recovery	11/13/19	BD	
2-Fluorobiphenyl	60.5%	-	% Recovery	11/13/19	BD	
Terphenyl-d14	74.4%	-	% Recovery	11/13/19	BD	
Michigan Metals						
Arsenic	1,270	100	μg/Kg, dry wt.	11/14/19	DS	
Barium	39,700	1,000	μg/Kg, dry wt.	11/14/19	DS	
Cadmium	203	200	μg/Kg, dry wt.	11/14/19	DS	
Chromium	6,400	2,000	μg/Kg, dry wt.	11/14/19	DS	
Copper	5,100	1,000	μg/Kg, dry wt.	11/14/19	DS	
Lead	9,610	1,000	μg/Kg, dry wt.	11/14/19	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	11/13/19	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	11/14/19	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	11/14/19	DS	
Zinc	21,600	1,000	μg/Kg, dry wt.	11/14/19	DS	
Analysis Information						
Dry Weight Solids	81.5%	-	% by weight	11/11/19	LB	
PNA Extraction	Completed	-	-	11/13/19	LB	
Mercury Digestion	Completed	-	-	11/13/19	LB	
Metals Digestion	Completed	-	-	11/12/19	LB	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

E D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-27/TMW, 1	1/6/19				
Laboratory ID:	10829-44	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	11/11/19	BD	
Benzene	Not Detected	1	μg/L	11/11/19	BD	
Bromobenzene	Not Detected	1	μg/L	11/11/19	BD	
Bromochloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromodichloromethane	Not Detected	1	μg/L	11/11/19	BD	
Bromoform	Not Detected	1	μg/L	11/11/19	BD	
Bromomethane	Not Detected	5	μg/L	11/11/19	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	11/11/19	BD	
n-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
sec-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
tert-Butylbenzene	Not Detected	1	μg/L	11/11/19	BD	
Carbon disulfide	Not Detected	5	μg/L	11/11/19	BD	
Carbon tetrachloride	Not Detected	1	μg/L	11/11/19	BD	
Chlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Chloroethane	Not Detected	5	μg/L	11/11/19	BD	
Chloroform	Not Detected	1	μg/L	11/11/19	BD	
Chloromethane	Not Detected	5	μg/L	11/11/19	BD	
2-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
4-Chlorotoluene	Not Detected	5	μg/L	11/11/19	BD	
Dibromochloromethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	11/11/19	BD	
Dibromomethane	Not Detected	5	μg/L	11/11/19	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	11/11/19	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	11/11/19	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	11/11/19	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	11/11/19	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
cis-1,3-Dichloropropene	Not Detected	1	μg/L	11/11/19	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 10829 November 18, 2019 Flint Wade Trim 14535s 139 of 149

Sample Description:	B-27/TMW, 11/6/19								
Laboratory ID:	10829-44	Reporting Units of Limit Measure		Date of Analysis	Analyst	Data Qualifiers			
VOC's, Cont'd									
Ethylbenzene	Not Detected	1	μg/L	11/11/19	BD				
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	11/11/19	BD				
Hexachlorobutadiene	Not Detected	0.2	μg/L	11/11/19	BD				
2-Hexanone	Not Detected	50	μg/L	11/11/19	BD				
Isopropyl benzene	Not Detected	5	μg/L	11/11/19	BD				
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	11/11/19	BD				
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	11/11/19	BD				
Methylene chloride	Not Detected	5	μg/L	11/11/19	BD				
2-Methylnapthalene	Not Detected	5	μg/L	11/11/19	BD				
Naphthalene	Not Detected	5	μg/L	11/11/19	BD				
n-Propyl benzene	Not Detected	1	μg/L	11/11/19	BD				
Styrene	Not Detected	1	μg/L	11/11/19	BD				
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD				
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	11/11/19	BD				
Tetrachloroethylene	Not Detected	1	μg/L	11/11/19	BD				
Tetrahydrofuran	Not Detected	90	μg/L	11/11/19	BD				
Toluene	Not Detected	1	μg/L	11/11/19	BD				
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD				
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	11/11/19	BD				
1,1,1-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD				
1,1,2-Trichloroethane	Not Detected	1	μg/L	11/11/19	BD				
Trichloroethylene	Not Detected	1	μg/L	11/11/19	BD				
Trichlorofluoromethane	Not Detected	1	μg/L	11/11/19	BD				
1,2,3-Trichloropropane	Not Detected	1	μg/L	11/11/19	BD				
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD				
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	11/11/19	BD				
Vinyl Acetate	Not Detected	100	μg/L	11/11/19	BD				
Vinyl chloride	Not Detected	1	μg/L	11/11/19	BD				
Xylene (Total)	Not Detected	3	μg/L	11/11/19	BD				
Surrogate Standards									
1,2-Dichloroethane-d4	127%	-	% Recovery	11/11/19	BD				
Toluene-d8	106%	-	% Recovery	11/11/19	BD				
4-Bromofluorobenzene	103%	-	% Recovery	11/11/19	BD				
continued									

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	B-27/TMW, 11/6/19							
Laboratory ID:	10829-44	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers		
PNAs								
Acenaphthene	Not Detected	5	μg/L	11/08/19	BD			
Acenaphthylene	Not Detected	5	μg/L	11/08/19	BD			
Anthracene	Not Detected	5	μg/L	11/08/19	BD			
Benzo(a)anthracene	Not Detected	1	μg/L	11/08/19	BD			
Benzo(b)fluoranthene	Not Detected	1	μg/L	11/08/19	BD			
Benzo(k)fluoranthene	Not Detected	1	μg/L	11/08/19	BD			
Benzo(g,h,i)perylene	Not Detected	1	μg/L	11/08/19	BD			
Benzo(a)pyrene	Not Detected	1	μg/L	11/08/19	BD			
Chrysene	Not Detected	1	μg/L	11/08/19	BD			
Dibenz(a,h)anthracene	Not Detected	2	μg/L	11/08/19	BD			
Fluoranthene	Not Detected	1	μg/L	11/08/19	BD			
Fluorene	Not Detected	5	μg/L	11/08/19	BD			
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	11/08/19	BD			
2-Methylnaphthalene	Not Detected	5	μg/L	11/08/19	BD			
Naphthalene	Not Detected	5	μg/L	11/08/19	BD			
Phenanthrene	Not Detected	2	μg/L	11/08/19	BD			
Pyrene	Not Detected	5	μg/L	11/08/19	BD			
Surrogate Standards								
Nitrobenzene-d5	59.1%	-	% Recovery	11/08/19	BD			
2-Fluorobiphenyl	65.6%	-	% Recovery	11/08/19	BD			
Terphenyl-d14	63.3%	-	% Recovery	11/08/19	BD			
Analysis Information								
PNA Extraction	Completed	-	-	11/08/19	BD/DS			

Matrix Spike four times rule applied See Case Narrative



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### **Quality Control**

### VOC Matrix Spike Data

Spiked Sample: 10829	-18	Matrix: Soi	I	Units: ppl	o in extract			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	26	28	104	112	7.4	
Benzene	0.0	25	26	26	104	104	0.0	
Trichloroethene	0.0	25	22	21	88	84	4.7	
Toluene	0.0	25	23	22	92	88	4.4	
Chlorobenzene	0.0	25	20	19	80	76	5.1	

Spiked Sample: 10830	)-1	Matrix: So	il	Units: ppl	o in extract			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	31	28	124	112	10.2	
Benzene	0.0	25	21	22	84	88	4.7	
Trichloroethene	0.0	25	18	19	72	76	5.4	
Toluene	0.0	25	20	20	80	80	0.0	
Chlorobenzene	0.0	25	18	18	72	72	0.0	

Spiked Sample: 10824	LCS	Matrix: Wa	iter	Units: ppl	in solution			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	27	26	108	104	3.8	
Benzene	0.0	25	23	23	92	92	0.0	
Trichloroethene	0.0	25	20	20	80	80	0.0	
Toluene	0.0	25	21	21	84	84	0.0	
Chlorobenzene	0.0	25	19	20	76	80	5.1	



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### **Quality Control, Cont'd**

### PNA Matrix Spike Data

Spiked Sample:1082	29-35	Matrix: Soi	il	Units: ppr	m in extract			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Acenaphthene	0.0	20	15	12	75	60	22.2	
Phenanthrene	0.0	20	17	13	85	65	26.7	
Fluoranthene	0.0	20	17	13	85	65	26.7	
Pyrene	0.0	20	17	13	85	65	26.7	
Chrysene	0.0	20	16	12	80	60	28.6	

Spiked Sample: 1082	29-34	Matrix: Soi	il	Units: ppr	m in extract			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Acenaphthene	0.0	20	14	13	70	65	7.4	
Phenanthrene	0.0	20	16	16	80	80	0.0	
Fluoranthene	0.0	20	15	15	75	75	0.0	
Pyrene	0.0	20	15	16	75	80	6.5	
Chrysene	0.0	20	15	15	75	75	0.0	

Spiked Sample: 1082	21 LCS	Matrix: Wa	iter	Units: ppm in extract				
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Acenaphthene	0.0	20	12	15	60	75	22.2	
Phenanthrene	0.0	20	12	16	60	80	28.6	
Fluoranthene	0.0	20	13	16	65	80	20.7	
Pyrene	0.0	20	12	16	60	80	28.6	
Chrysene	0.0	20	13	15	65	75	14.3	

### PCB Matrix Spike Data

Spiked Sample: 108	329-34	Matrix: Soil		Units: ppr	m in extract			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Aroclor 1260	0.000	0.100	0.103	0.105	103	105	2.2	



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### **Quality Control Cont'd**

### Metals Matrix Spike Data

Spiked Sample:	10829-2 (10829	34 for Merc	cury)		Matrix: So	il	Units: p	ob in solution
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Arsenic	1.6	12.5	15.0	4.2	108	21	113	R, M
Barium	308	100	556	557	248	250	0.3	
Cadmium	0.6	1.3	1.6	1.7	78	86	5.6	
Chromium	61.6	10	77.8	71.8	NC	NC	8.0	F
Copper	38.5	25	86.8	70.5	193	128	20.7	S, M
Lead	39.9	25	50.1	51.5	41	46	2.7	S, M
Mercury	0.0	5.0	5.0	5.2	100	103	3.0	
Selenium	0.0	25	3.1	0.4	12	2	155	R, M
Silver	0.0	5.0	4.3	4.5	86	89	3.2	
Zinc	37	500	588	570	110	107	3.1	

Spiked Sample: 1	0829-32 (1083	37-1 for Merc	cury)		Matrix: So	il	Units: p	ob in solution
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Arsenic	0.0	12.5	7.9	7.9	63	63	0.3	
Barium	93.3	100	224	187	131	93	18.2	
Cadmium	0.7	1.3	1.5	1.5	68	64	3.0	
Chromium	13.7	10	26.3	25.3	126	116	3.9	
Copper	5.5	25	36.1	37.6	122	128	4.0	
Lead	25.4	25	56.5	48.2	124	91	15.7	
Mercury	0.0	5.0	4.9	4.8	97	97	0.6	
Selenium	0.0	25	5.8	6.1	23	24	4.9	
Silver	0.0	5.0	4.3	4.4	86	88	1.6	
Zinc	51	500	570	484	104	87	16.3	

Spiked Sample: 1	0829-3	Matrix: Wa	ter	Units: ppb	in solution			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Arsenic	1.5	12.5	13.0	14.1	92	101	8.3	
Barium	73.8	100	163	165	89	91	1.2	
Cadmium	0.2	1.3	1.2	1.2	77	81	4.0	
Chromium	0.7	10	11.4	11.2	106	105	1.4	
Copper	6.5	25	27.0	26.3	82	79	2.3	
Lead	3.9	25	22.6	21.6	75	71	4.2	
Mercury	0.0	10.0	8.8	8.9	88	89	1.4	
Selenium	0.0	25	25.9	24.4	103	97	6.0	
Silver	0.0	5.0	1.9	1.9	37	39	3.7	
Zinc	0.0	500	406	418	81	84	2.9	

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

M Matrix interference observed F Matrix Spike four times rule at C See Case Narrative



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### **Case Narrative**

The reporting limit for Copper and Lead in water were elevated due to the presence of the analyte in the associated method blank.

All method protocols and quality control requirements were satisfied for all samples.

### **Notes**

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.

David W. Starr

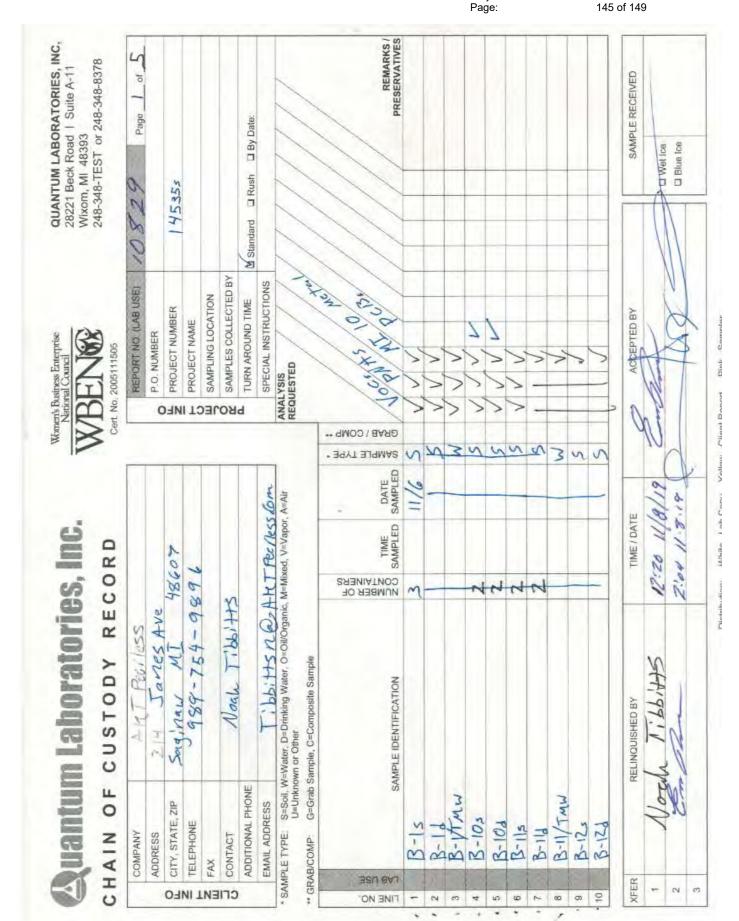
**Analytical Chemistry Manager** 

Matrix Spike four times rule applied See Case Narrative



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Data Qualifiers:

Internal Standard results outside of acceptance limits

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution
Result should be considered estimated

D

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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### RESERVATIVES QUANTUM LABORATORIES, INC. 248-348-TEST or 248-348-8378 28221 Beck Road | Suite A-11 of SAMPLE RECEIVED ☐ By Date: Wixom, MI 48393 90 ☐ Wet Ice Blue C Rush 5 53 Standard SAMPLES COLLECTED BY SPECIAL INSTRUCTIONS REPORT NO. (LAB USE) SAMPLING LOCATION TURN AROUND TIME PROJECT NUMBER ACCEPTED BY PROJECT NAME P.O. NUMBER Women's Business Enterprise Cert. No. 2005111505 ANALYSIS REQUESTED PROJECT INFO GRAB / COMP \*\* 3 SAMPLE TYPE . SAMPLED 11.8.19 11.8.19 S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air TIME / DATE uantum Laboratories, Inc. SAMPLED TIME 12:20 CONTAINERS NUMBER OF Poorlless ODY G=Grab Sample, C=Composite Sample SAMPLE IDENTIFICATION RELINQUISHED BY LS U=Unknown or Other MW ADDITIONAL PHONE **EMAIL ADDRESS** 13-149 CITY, STATE, TELEPHONE B-14) COMPANY SAMPLE TYPE: HAIN ADDRESS CONTACT GRAB/COMP. FAX **BSU 8AJ** 0 O CLIENT INFO **FINE NO** 80 UD. 00

- Internal Standard results outside of acceptance limits QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated
- Result is from a dilution
  Result should be considered estimated
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative

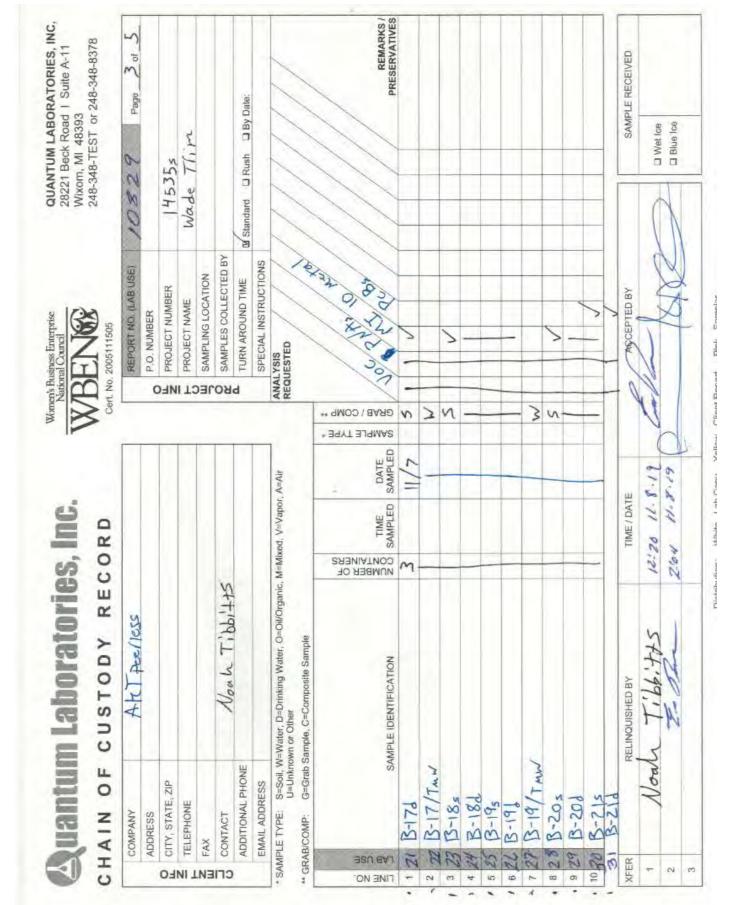


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- Internal Standard results outside of acceptance limits
- S QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated
- D Result is from a dilution
  J Result should be considered estimated
- Matrix interference observed
- F Matrix Spike four times rule appliedC See Case Narrative



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Distribution: White - Lab Capy Yellow - Client Report Pink - Sampler

Data Qualifiers:

- Internal Standard results outside of acceptance limits
- S R QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated D J
- Matrix interference observed
- M F C Matrix Spike four times rule applied See Case Narrative



**Report Number:** 

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### PRESERVATIVES QUANTUM LABORATORIES, INC. 248-348-TEST or 248-348-8378 28221 Beck Road | Suite A-11 SAMPLE RECEIVED of 4 D By Date: wade Wixom, MI 48393 Blue Ice U Wet Ice C Rush 5355 ☐ Standard 7 SAMPLES COLLECTED BY SPECIAL INSTRUCTIONS REPORT NO. (LAB USE) SAMPLING LOCATION TURN AROUND TIME PROJECT NUMBER ACCEPTED BY PROJECT NAME P.O. NUMBER Women's Business Enterprise National Council Cert. No. 2005111505 ANALYSIS PROJECT INFO GRAB / COMP \*\* SOW SAMPLE TYPE \* DATE S=Soll, W=Water, D=Drinking Water, O=Oll/Organic, M=Mixed, V=Vapor, A=Air 90 TIME / DATE **Auantum Laboratories, Inc.** SAMPLED 120 CONTAINERS NUMBER OF AKT Pechless CUSTODY G=Grab Sample, C=Composite Sample Nogh SAMPLE IDENTIFICATION RELINQUISHED BY U=Unknown or Other 000 ADDITIONAL PHONE CITY, STATE, ZIP **EMAIL ADDRESS** TELEPHONE COMPANY HAIN ADDRESS SAMPLE TYPE CONTACT GRAB/COMP; FAX **BUSE** XFER N CLIENT INFO 9 **TIME NO** N 3 10 0 00 03

- Internal Standard results outside of acceptance limits QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- Reporting limit is elevated
- Result is from a dilution
  Result should be considered estimated D
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



### Appendix B Soil Boring Logs

					1	BORING	106				
	A LAMBETOL FOR					Flint Secondary Wat	B-1/TMW				
A	<b>AKT</b> PEERLESS					Flint, Michigan					JMC
						AKT Peerless Proje	=		Date	vn By:	11/8/2019
DRILL	ING C	OMPA	ANY:		AKT Peerl	ess	WEATHER:	Cloud	dy, 38	8°F	
TECH	NICIAI	N:			Josh Cichy	1	BORING DEPTH:	10.0'			
DATE	DRILL	ED:			11/06/19		DEPTH TO GW:	9.0'			
DRILL	ING N	1ETHC	D:		Push Prob	e	SCREEN INTERVAL:	5-10'			
FIELD	GEOL	.OGIST	Γ:	1	Josh Cichy	<u> </u>	SCREEN MATERIAL:	PVC	_		
ОЕРТН FEET	DEPTH FEET SAMPLE INTERVAL % RECOVERY PID VALUE USCS SOIL CLASS.			USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION		MOISTURE			DRARY WELL AGRAM
				SP	Brown	TOPSOIL SAND, medium to coarse grain,	with trace gravel	D			
2		90%	<.01								
	S	3070	١.٥١	SP	Black	SAND, medium to coarse grain,	with trace gravel and fill	D			— PVC
				SM	Brown	SAND, fine to medium grain		D			RISER
4				CL	Light	CLAY, medium stiffness		D			
4					Brown		,				
6		95%	<.01								
											PVC SCREEN
8											SCREEN
		95%	<.01						$\frac{\nabla}{=}$		
		95%	<.01					S			
10	D					End of Boring			L		
						End of Boring					
12											
14											
1											
4.6											
16											
18											
20		,									
20											

### **BORING LOG** B-2/TMW Flint Secondary Water Supply Project **AKT**PEERLESS NMT Flint, Michigan Drawn By: AKT Peerless Project No: 14535s Date: 11/8/2019 AKT Peerless DRILLING COMPANY: WEATHER: Sunny, 56°F TECHNICIAN: Josh Cichy **BORING DEPTH:** 10.0' 3.0' DATE DRILLED: 11/05/19 **DEPTH TO GW:** DRILLING METHOD: Push Probe 0-5' SCREEN INTERVAL: FIELD GEOLOGIST: PVC Josh Cichy SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM TOPSOIL D CL Brown CLAY, medium stiffness D SANDY CLAY, medium stiffness S SC Brown D 90% <.01 - PVC S **SCREEN** CLAY, very stiff CL Brown 95% <.01 6 95% <.01 D 10 **End of Boring** 12 14 16

18



### **BORING LOG**

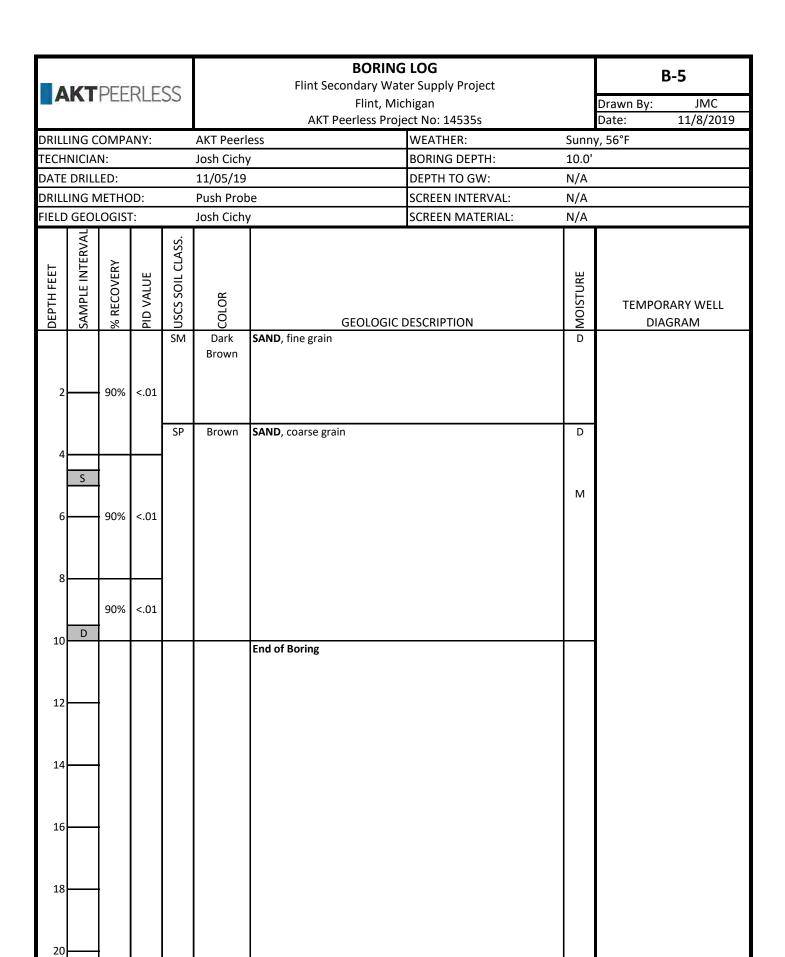
Flint Secondary Water Supply Project

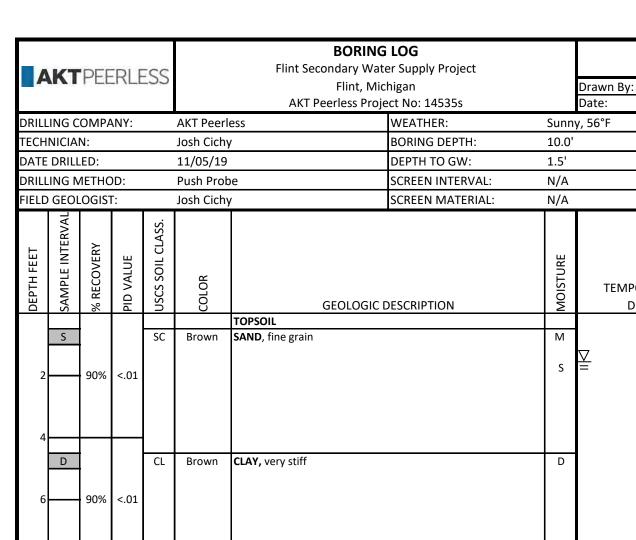
B-3

<b>AKT</b> PEERLESS						Fillit Secondary Water Supply Project					
A.	11 / 1	1	-1 XLL			Flint, Mic			Drawn By: NMT		
						AKT Peerless Proj			Date: 11/8/2019		
DRILL	ING C	OMPA	ANY:		AKT Peerl	ess	WEATHER:		y, 56°F		
TECHNICIAN:					Josh Cichy	1	BORING DEPTH:	10.0'			
DATE	DRILL	ED:			11/05/19		DEPTH TO GW:	N/A			
DRILL	ING N	ЛЕТНС	D:		Push Prob	oe	SCREEN INTERVAL:	N/A			
FIELD	GEOL	_OGIS	Γ:		Josh Cichy	1	SCREEN MATERIAL:	N/A			
<b>DEPTH FEET</b>	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR		DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM		
				- 60		TOPSOIL		D			
2	S	90%	<.01	SP	Brown	SAND, fine to medium grain		D			
								141			
4				SC	Grey	SANDY CLAY, medium stiffness	3	М			
					Brown	CLAY, very stiff		D			
6		90%	<.01	CL	Brown	CLAY, very stiff		ا			
8		95%	<.01								
		9576	<.01								
10	D					End of Boring					
12											
14											
16											
18											
20				l							

### **BORING LOG** B-4/TMW Flint Secondary Water Supply Project **AKT**PEERLESS JMC Flint, Michigan Drawn By: AKT Peerless Project No: 14535s Date: 11/8/2019 AKT Peerless DRILLING COMPANY: WEATHER: Sunny, 56°F TECHNICIAN: Josh Cichy **BORING DEPTH:** 10.0' DATE DRILLED: 11/05/19 3.0' **DEPTH TO GW:** DRILLING METHOD: Push Probe 0-5' SCREEN INTERVAL: FIELD GEOLOGIST: PVC Josh Cichy SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM СН **CLAY**, low-medium stiffness D Brown SC Tan **SANDY CLAY,** medium stiffness 90% <.01 - PVC **SCREEN** S S 90% <.01 D CL Brown CLAY, low-medium stiffness <.01 95% 10 **End of Boring** 12 14 16

18





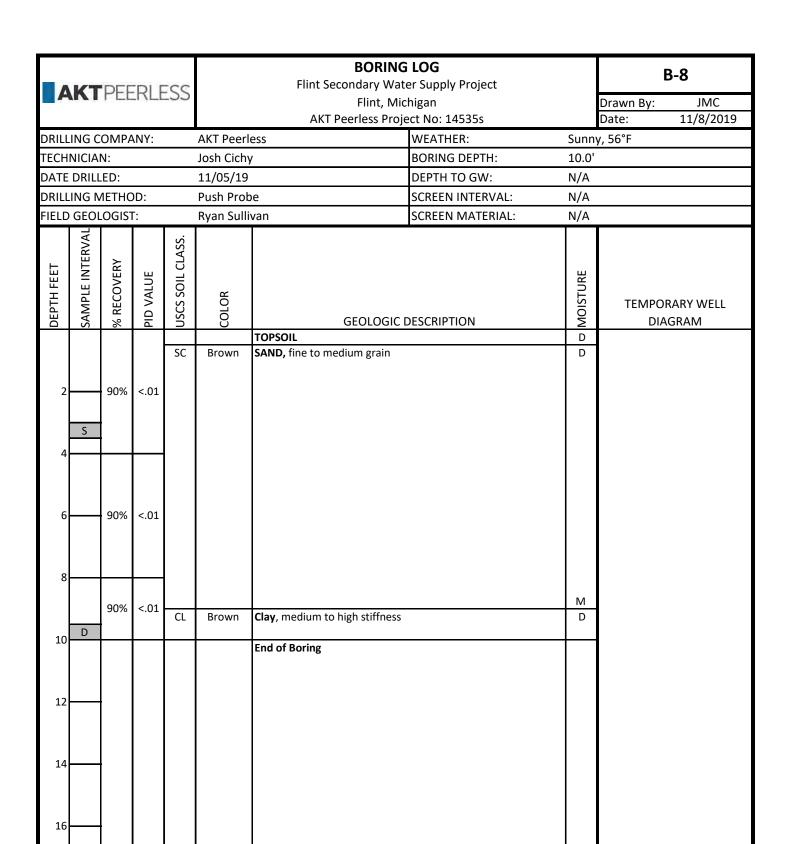
**B-6** 

NMT

11/8/2019

DEPTH FEE	SAMPLE IN	% RECOVE	PID VALUE	USCS SOIL	OR		MOISTURE	TEMPORARY WELL
DEP	SAN	% RI	PID	nsc	COLOR	GEOLOGIC DESCRIPTION	MOI	DIAGRAM
						TOPSOIL		
	S			SC	Brown	SAND, fine grain	М	
							S	<u>∇</u> =
2		90%	<.01					
4								
	D			CL	Brown	CLAY, very stiff	D	
6		90%	<.01					
8								
		95%	<.01					
		3375						
10						End of Boring		
12								
14								
16								
18								
20								

### **BORING LOG B-7TMW** Flint Secondary Water Supply Project **AKT**PEERLESS NMT Flint, Michigan Drawn By: AKT Peerless Project No: 14535s Date: 11/8/2019 AKT Peerless DRILLING COMPANY: WEATHER: Sunny, 56°F TECHNICIAN: Josh Cichy **BORING DEPTH:** 10.0' 11/05/19 9.0' DATE DRILLED: **DEPTH TO GW:** DRILLING METHOD: Push Probe 5-10' SCREEN INTERVAL: FIELD GEOLOGIST: PVC Josh Cichy SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM TOPSOIL PVC D SC Brown **SAND,** fine to medium grain RISER 90% <.01 S 90% <.01 6 - PVC **SCREEN** 90% <.01 S D 10 **End of Boring** 12 14 16 18





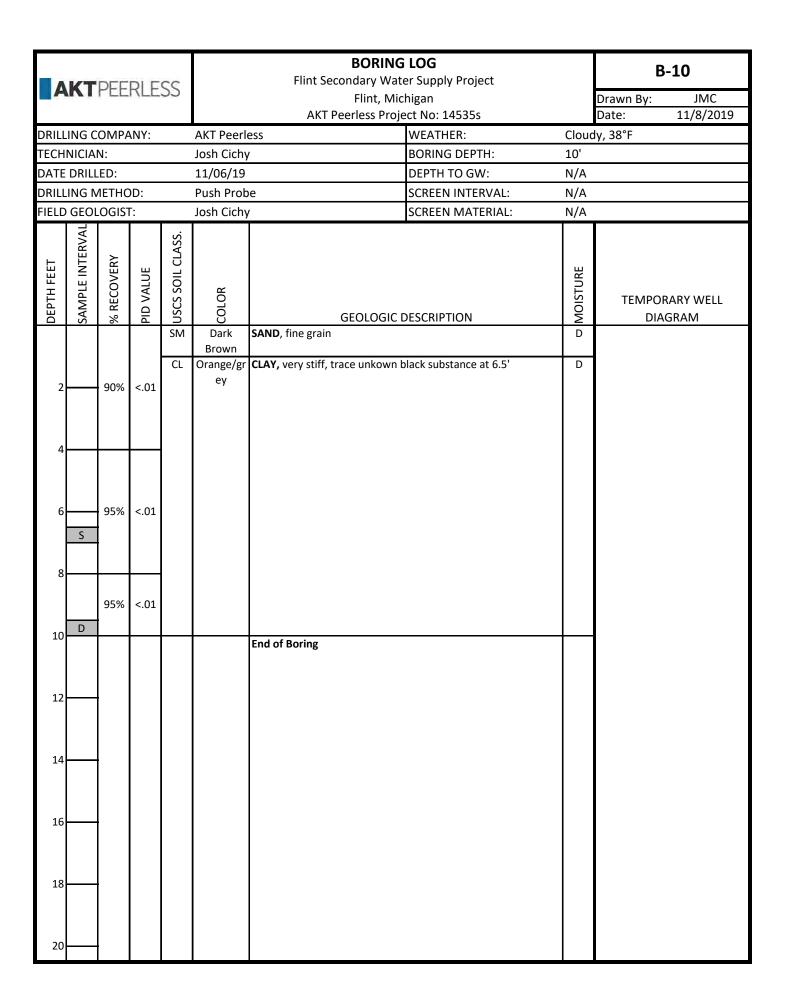
### **BORING LOG**

Flint Secondary Water Supply Project Flint, Michigan

NMT Drawn By:

**B-9** 

AKT Peerless Project No: 14535s Date: 11/8/2019 AKT Peerless DRILLING COMPANY: WEATHER: Sunny, 56°F 10.0' TECHNICIAN: **Noah Tibbitts BORING DEPTH:** DATE DRILLED: 11/05/19 N/A **DEPTH TO GW:** DRILLING METHOD: N/A **Push Probe** SCREEN INTERVAL: FIELD GEOLOGIST: **Noah Tibbitts** N/A SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM TOPSOIL D Dark Brown **SAND**, fine to medium grain S 90% <.01 CL CLAY, very stiff Grey 95% <.01 6 95% <.01 D 10 **End of Boring** 12 14 16 18



## **AKT**PEERLESS

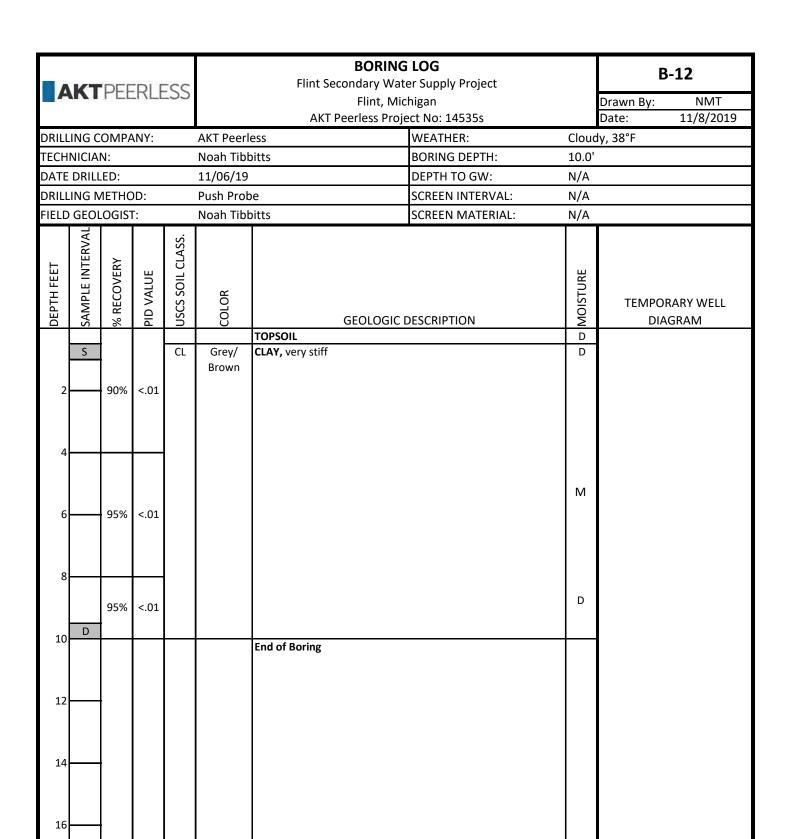
### **BORING LOG**

Flint Secondary Water Supply Project Flint, Michigan

**B-11/TMW** 

Drawn By: NMT

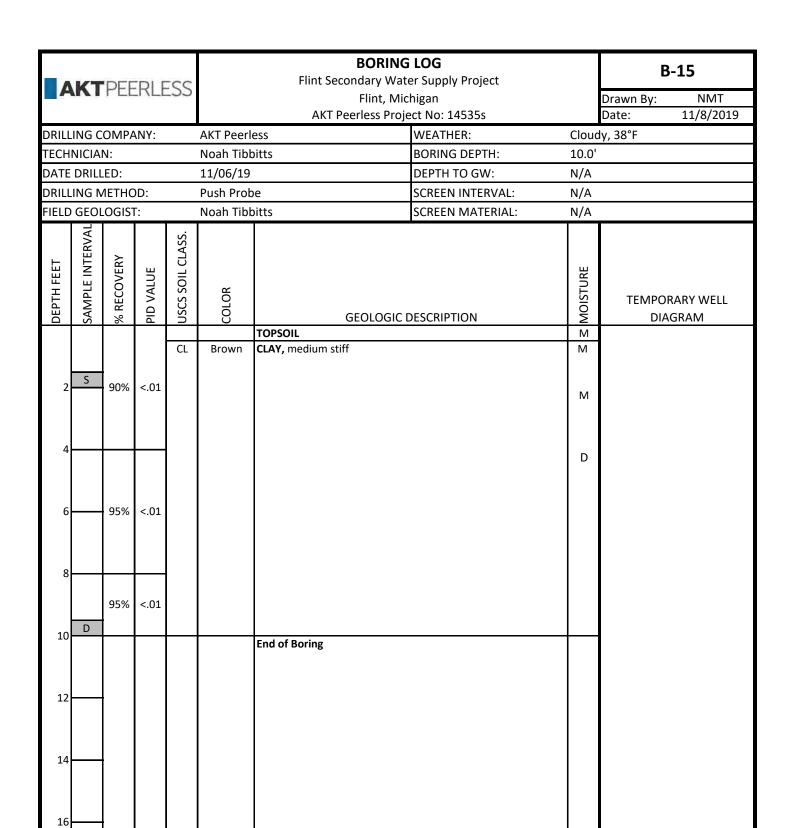
					AKT Peerless Project No: 14535s				Date: 11/8/2019			
DRILLING COMPANY:					AKT Peerle	ess	WEATHER:	Cloud	Cloudy, 38°F			
TECHNICIAN:					Noah Tibb	oitts	BORING DEPTH:	10.0'				
DATE	DRILL	.ED:			11/06/19		DEPTH TO GW:	2'				
DRILL	ING N	1ETHC	D:		Push Prob	е	SCREEN INTERVAL:	0-5'				
FIELD	GEOL	.OGIST	:		Noah Tibb	oitts	SCREEN MATERIAL:	PVC				
<b>DEPTH FEET</b>	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC TOPSOIL	DESCRIPTION	o MOISTURE	TEMPORARY WELL  DIAGRAM			
				SC	Brown	SANDY CLAY, medium stiffness	<u> </u>	D				
2	S	90%	<.01	36	5.000			S	□ PVC SCREEN			
-												
6		90%	<.01	CL	Brown	CLAY, medium to very stiff		D				
8	D	95%	<.01									
10						End of Boring						
12												
14												
16												
18												
20		•										

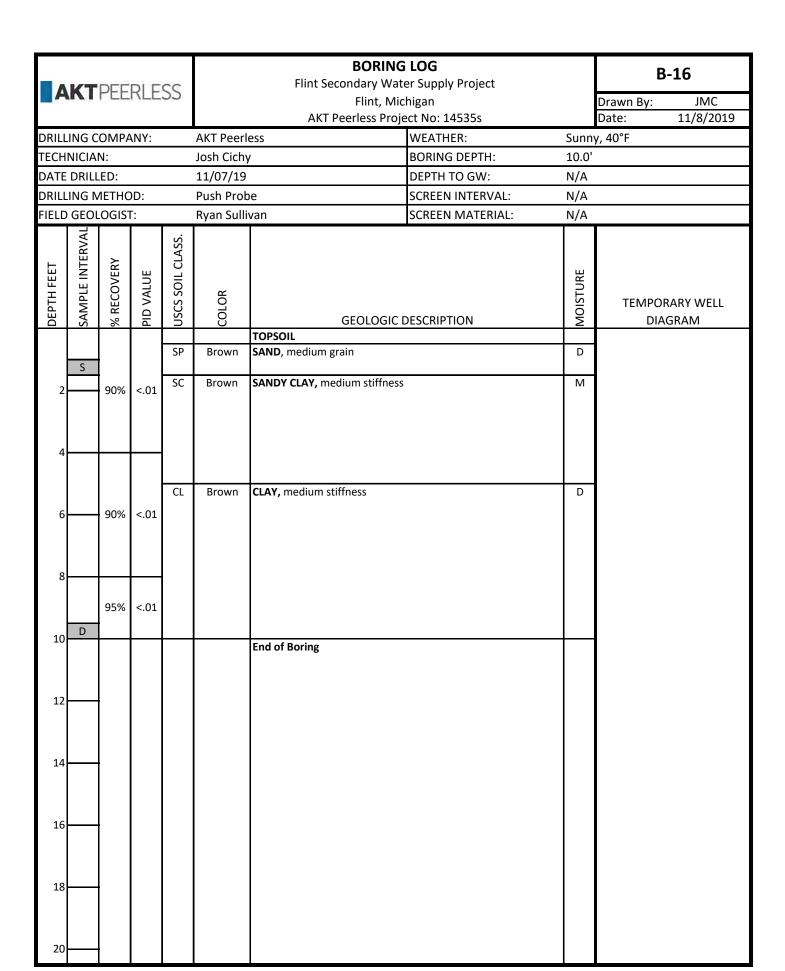


BORING LOG Flint Secondary Water Supply Project Flint, Michigan AKT Peerless Project No: 14535s  DRILLING COMPANY: AKT Peerless WEATHER: Clo TECHNICIAN: Josh Cichy BORING DEPTH: 10 DATE DRILLED: 11/06/19 DEPTH TO GW: 2.0	B-13  Drawn By: JMC  Date: 11/8/2019  Dudy, 38°F
Flint, Michigan AKT Peerless Project No: 14535s  DRILLING COMPANY: AKT Peerless WEATHER: Clo TECHNICIAN: Josh Cichy BORING DEPTH: 10	Date: 11/8/2019 budy, 38°F
DRILLING COMPANY: AKT Peerless WEATHER: Clo TECHNICIAN: Josh Cichy BORING DEPTH: 10	Date: 11/8/2019 budy, 38°F
TECHNICIAN: Josh Cichy BORING DEPTH: 10	•
·	.0'
DATE DRILLED: 11/06/19 DEPTH TO GW: 2.0	
DRILLING METHOD: Push Probe SCREEN INTERVAL: N/	
FIELD GEOLOGIST: Josh Cichy SCREEN MATERIAL: N/	A
	TEMPORARY WELL DIAGRAM
TOPSOIL  SP Tan SAND, coarse grain, with gravel	<u> </u>
SP Tan SAND, coarse grain, with gravel  CL Brown CLAY, low to medium stiffness	
3 S 90% < 01	$\nabla$
	ς =
6 95% <.01	
Cl. Drawin Clay high stiffeness	<u> </u>
95% <.01	
10 End of Boring	
16	
18	
20	

### **BORING LOG B-14/TMW** Flint Secondary Water Supply Project **AKT**PEERLESS JMC Flint, Michigan Drawn By: AKT Peerless Project No: 14535s Date: 11/8/2019 DRILLING COMPANY: **AKT Peerless** WEATHER: Cloudy, 38°F TECHNICIAN: Josh Cichy **BORING DEPTH:** 10.0' DATE DRILLED: 11/06/19 1.5' **DEPTH TO GW:** DRILLING METHOD: Push Probe 0-5' SCREEN INTERVAL: FIELD GEOLOGIST: PVC Josh Cichy SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM TOPSOIL SP Brown SAND, medium grain D S SANDY CLAY, medium stiffness S SC Brown 90% <.01 - PVC **SCREEN** 90% <.01 D CL Brown CLAY, medium to very stiff <.01 95% 10 **End of Boring** 12 14 16

18





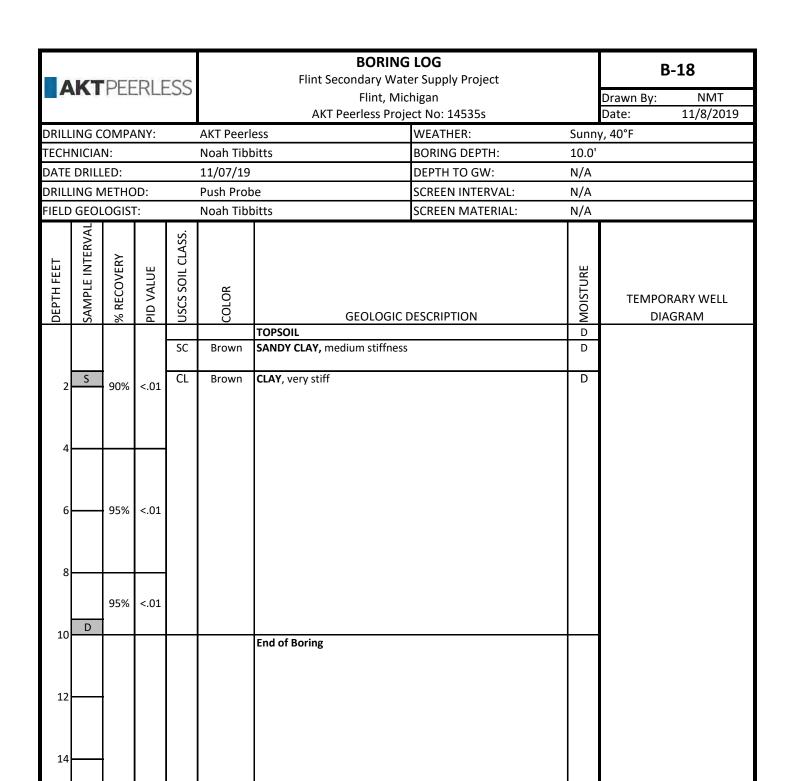
## **AKT**PEERLESS

### **BORING LOG**

Flint Secondary Water Supply Project Flint Michigan

**B-17/TMW** 

AN I FELIVES								Drawn By: JMC	
							oject No: 14535s		Date: 11/8/2019
DRILLING COMPANY:					AKT Peerl		WEATHER:		y, 40°F
TECHNICIAN:					Josh Cichy	/	BORING DEPTH:	10.0'	
DATE DRILLED:					11/07/19		DEPTH TO GW:	5.5'	
DRILL					Push Prob		SCREEN INTERVAL:	3-8'	
FIELD		.OGIST	:		Josh Cichy	<u>/</u>	SCREEN MATERIAL:	PVC	1
<b>DEPTH FEET</b>	SAMPLE INTERVAL	% RECOVERY	PID VALUE	송 USCS SOIL CLASS.	COLOR	GEOLOGIO SAND, coarse grain	C DESCRIPTION	o MOISTURE	TEMPORARY WELL DIAGRAM
				Jr.	BIOWII	JAND, coarse grain			1
				SC	Brown	SANDY CLAY, medium stiffne	SS	D	1
2		90%	<.01	CL	Orange/	CLAY, high stiffness		М	PVC RISER
4				61	Brown	<b>CLA</b> () high stimess			
6 · 8 ·	S	95%	<.01					S	▼ PVC SCREEN
10	D	95%	<.01						
						End of Boring			
12									
14									
16									
18									
20									



# **AKT**PEERLESS

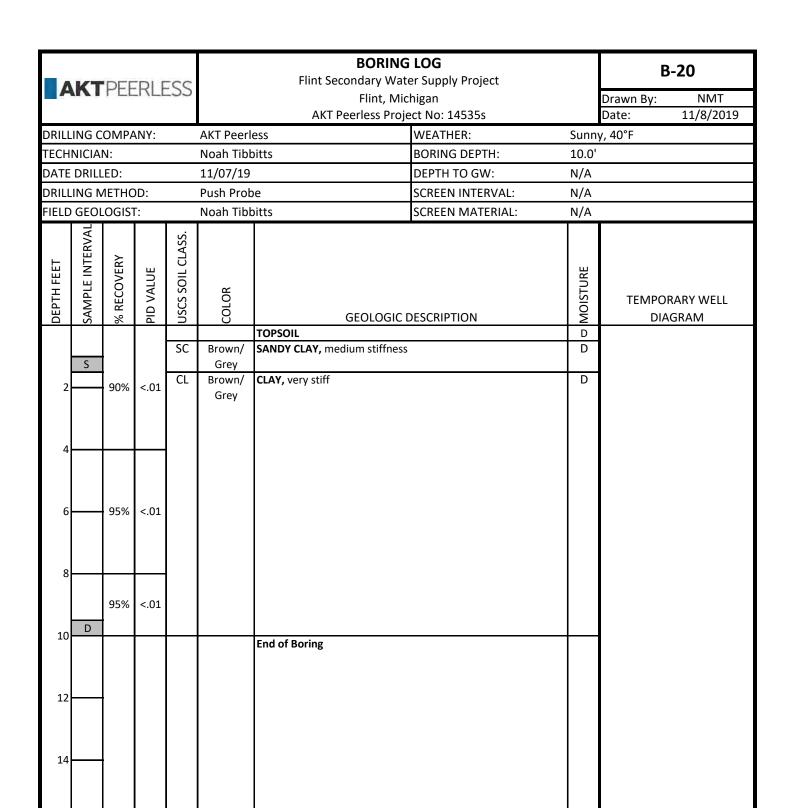
### **BORING LOG**

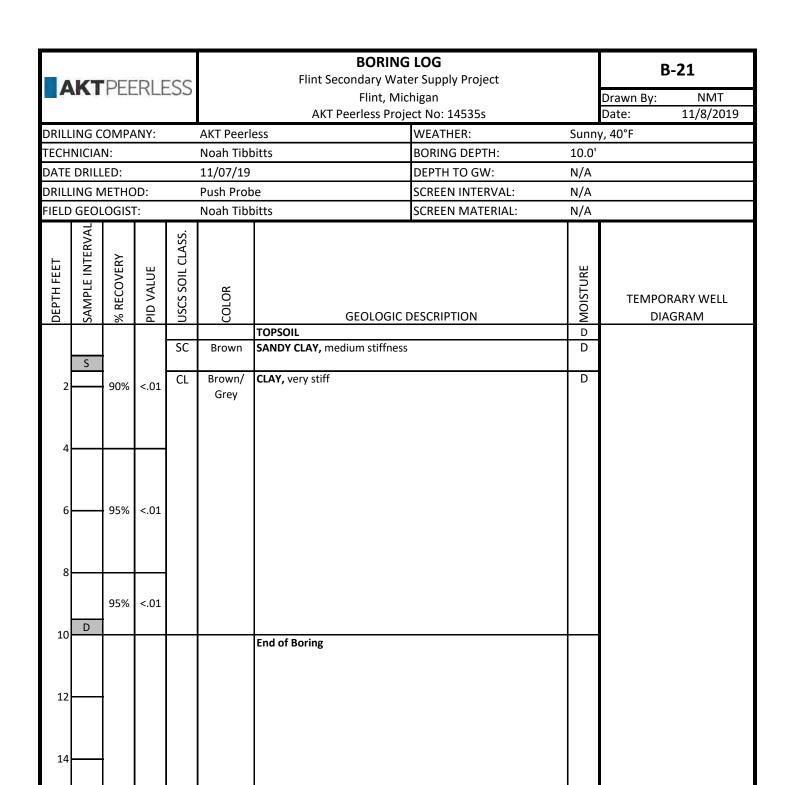
Flint Secondary Water Supply Project Flint, Michigan

B-19/TMW

Drawn By: NMT

						Flint, Mic			Drawn By: NMT Date: 11/8/2019	
DRILLING COMPANY:					AKT Peerless Project No: 14535s					
	NICIAI		AIN I.		AKT Peerless WEATHER:  Noah Tibbitts BORING DEPTH:			Sunny, 40°F 10.0'		
	DRILL				11/07/19	onces —	DEPTH TO GW:	7.0'		
<b>I</b>	ING N		)D·		Push Prob	.0	SCREEN INTERVAL:	5-10'		
<b>-</b>	GEOL				Noah Tibb		SCREEN MATERIAL:	PVC		
HELD		.00131			NOall libb	ortes	SCREEN WATERIAL.	1		
DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR		DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM	
				CL	Brown/	TOPSOIL CLAY, very stiff		D D	PVC	
	S	ı		CL	Grey	CEAT, VELY SUIT			RISER	
2		90%	<.01							
4		30%								
6		95%	<.01					S	▼ = PVC SCREEN	
8		95%	<.01					D	SCREEN	
10	D									
10						End of Boring				
12										
14										
16										
18										
20										







20

### **BORING LOG**

Flint Secondary Water Supply Project Flint, Michigan

NMT Drawn By:

**B-22** 

AKT Peerless Project No: 14535s Date: 11/8/2019 AKT Peerless DRILLING COMPANY: WEATHER: Sunny, 40°F 10.0' TECHNICIAN: **Noah Tibbitts BORING DEPTH:** DATE DRILLED: 11/07/19 N/A **DEPTH TO GW:** DRILLING METHOD: N/A **Push Probe** SCREEN INTERVAL: FIELD GEOLOGIST: **Noah Tibbitts** N/A SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM TOPSOIL D SP Brown **SAND**, fine to medium grain D 90% <.01 S 90% <.01 6 SC Brown/ D SANDY CLAY, medium stiffness Grey 90% <.01 D 10 **End of Boring** 12 14 16



### **BORING LOG**

Flint Secondary Water Supply Project Flint, Michigan

**B-23** 

NMT Drawn By: AKT Peerless Project No: 14535s Date: 11/8/2019 AKT Peerless DRILLING COMPANY: WEATHER: Sunny, 40°F **Noah Tibbitts** 10.0' TECHNICIAN: **BORING DEPTH:** DATE DRILLED: 11/07/19 N/A **DEPTH TO GW:** DRILLING METHOD: Push Probe N/A SCREEN INTERVAL: FIELD GEOLOGIST: **Noah Tibbitts** N/A SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM TOPSOIL D SP D S Brown **SAND**, fine to medium grain 90% <.01 90% <.01 D Μ 95% <.01 10 **End of Boring** 12 14 16 18



### **BORING LOG**

Flint Secondary Water Supply Project Flint, Michigan

NMT

**B-24** 

Drawn By: AKT Peerless Project No: 14535s Date: 11/8/2019 AKT Peerless DRILLING COMPANY: WEATHER: Sunny, 40°F 10.0' TECHNICIAN: **Noah Tibbitts BORING DEPTH:** N/A DATE DRILLED: 11/07/19 **DEPTH TO GW:** DRILLING METHOD: N/A **Push Probe** SCREEN INTERVAL: FIELD GEOLOGIST: **Noah Tibbitts** N/A SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM TOPSOIL D SP Brown **SAND**, fine to medium grain D S 90% <.01 SP D Light SAND, medium to coarse grain Brown 90% <.01 90% <.01 D 10 **End of Boring** 12 14 16 18



18

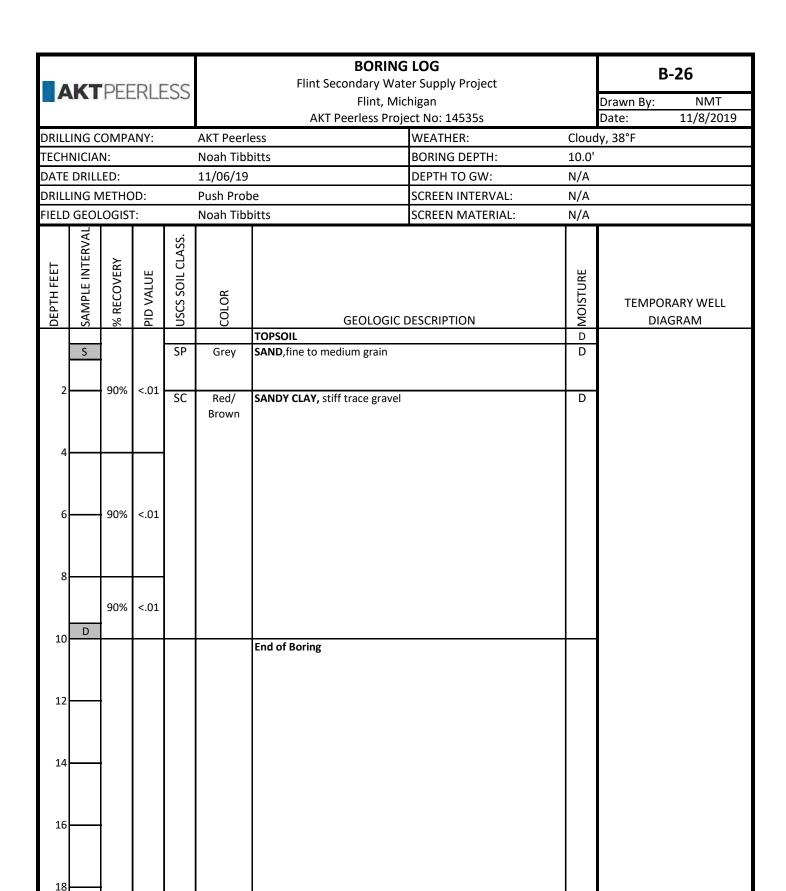
20

#### **BORING LOG**

Flint Secondary Water Supply Project Flint, Michigan

**B-25** 

NMT Drawn By: AKT Peerless Project No: 14535s Date: 11/8/2019 AKT Peerless DRILLING COMPANY: WEATHER: Sunny, 40°F 10.0' TECHNICIAN: **Noah Tibbitts BORING DEPTH:** DATE DRILLED: N/A 11/07/19 **DEPTH TO GW:** DRILLING METHOD: N/A **Push Probe** SCREEN INTERVAL: FIELD GEOLOGIST: N/A **Noah Tibbitts** SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM TOPSOIL D SC Brown **SANDY CLAY,** medium stiffness D S 90% <.01 SP **SAND**, medium to coarse grain D Grey 90% <.01 D Μ 90% <.01 10 **End of Boring** 12 14 16



#### **BORING LOG B-27/TMW** Flint Secondary Water Supply Project **AKT**PEERLESS JMC Flint, Michigan Drawn By: AKT Peerless Project No: 14535s Date: 11/8/2019 AKT Peerless DRILLING COMPANY: WEATHER: Sunny, 56°F TECHNICIAN: Josh Cichy **BORING DEPTH:** 10.0' 11/06/19 2.0' DATE DRILLED: **DEPTH TO GW:** DRILLING METHOD: Push Probe 0-5' SCREEN INTERVAL: FIELD GEOLOGIST: PVC Josh Cichy SCREEN MATERIAL: SAMPLE INTERVAL USCS SOIL CLASS. % RECOVERY DEPTH FEET PID VALUE MOISTURE COLOR TEMPORARY WELL **GEOLOGIC DESCRIPTION** DIAGRAM TOPSOIL SM Brown SAND, fine to medium grain D SANDY CLAY, high stiffness S SC Brown S 90% <.01 - PVC **SCREEN** 90% <.01 6 90% <.01 D 10 **End of Boring** 12 14 16 18

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# Appendix C Disclosure Statement





## **DISCLOSURE STATEMENT**

# FLINT SECONDARY WATER SUPPLY PROJECT Flint, Michigan

#### November 2019

Contaminants are present in soil at this site at concentrations exceeding the Michigan Department of Environment, Great Lakes, & Energy (EGLE) Part 201 Generic Cleanup Criteria (GCC) developed under the authority of Part 201 of the Natural Resources and Environmental Protection Act (NREPA), P.A. 451 of 1994, as amended. Contamination consists of metals in shallow subsurface soil. Contamination should be assumed to be present across the entire parcel where contamination was identified. To meet due care obligations under Section 20107a, the following measures shall be followed by all contractors during site activities:

# <u>During excavation appropriate characterization, management, and handling procedures should be</u> established.

During excavation, grading, etc., appropriate actions should be taken to prevent risk. The foreseeable management and handling procedures for soil could include: (1) promptly returning impacted soil to the excavation, (2) relocation of the soil to suitable alternative locations on the subject property, (3) removing the impacted soil to a proper disposal facility, and backfilling with clean fill material, and (4) properly managing soil through the use of erosion controls, temporary fencing, covering of stockpiles, etc., to reliably prevent contaminated soil runoff and erosion of bare and stockpiled soil.

# In the event groundwater accumulates in excavations during construction activities, groundwater should not be disturbed, pumped, or discharged without prior characterization.

Representative characterization sampling should be conducted to determine the appropriate handling and discharge alternatives. Groundwater should not be discharged directly onto the ground of the subject property.

### **Excavation activities should be conducted under a Health and Safety Plan.**

Any contractors working with materials containing potentially hazardous substances should prepare a Health and Safety Plan, which will include, at a minimum, appropriate protective equipment (work gloves, boots, long pants, hard hats, etc.), emergency contact numbers, and hospital locations. Health and Safety Plans prepared for this work should be read and signed by all workers assigned to the project prior to performing work.



214 Janes Avenue Saginaw, MI 48607 T (989) 754.9896 F (989) 754.3804 www.aktpeerless.com

Any buried containers (i.e. underground storage tanks (USTs), drums, pipelines, vaults, cisterns, etc.) that are discovered, although not anticipated, during construction should be appropriately characterized and removed.

Any abandoned containers that are discovered should not be disturbed and any activities that could result in damage to buried containers ceased. Construction activities should not resume until the abandoned container(s) are properly removed.

Due to the presence of contaminants at concentrations that exceed groundwater surface water interface criteria, soil must be handled in a manner that prevents erosion and possible runoff to surface waters.

Erosion controls (silt fencing or other barriers) must be utilized: (1) around the perimeter of the property and (2) around any areas where excavated soil is stockpiled or mounded on a short-term basis.

I have read and understand this Disclosure	e Statement.
Signature	Date
Company	

# **Exhibit 6 MDOT Performance Bond User Guide**



Michigan Department of Transportation
Highway Development
Real Estate
Utility Coordination and Permits Services
Certificate of Insurance/Permit Performance Surety Bonds Program

# User Guide **E-Performance Bond and Certificate of Insurance**Instructions for Completing/Submitting Online Forms

Business Requirements	2
Process Description.	2
Access Online Forms.	
Procedure	3
Orientation to Web-Based (Online) Application	7
Application Basics	7
e-Performance Bonds – Permit Performance Bond	
Procedure	8
Certificate of Insurance for Permitted Activities (Form 2020)	12
Procedure	12
Tiocodic	12

# **Business Requirements**

# **Process Description**

- Effective February 11, 2008, performance bond forms and the Certificate of Insurance (form 2020) are available online.
- All insurance information must be submitted on electronic Form 2020. Any other form is invalid.
- Access to online forms requires registration. Contact:

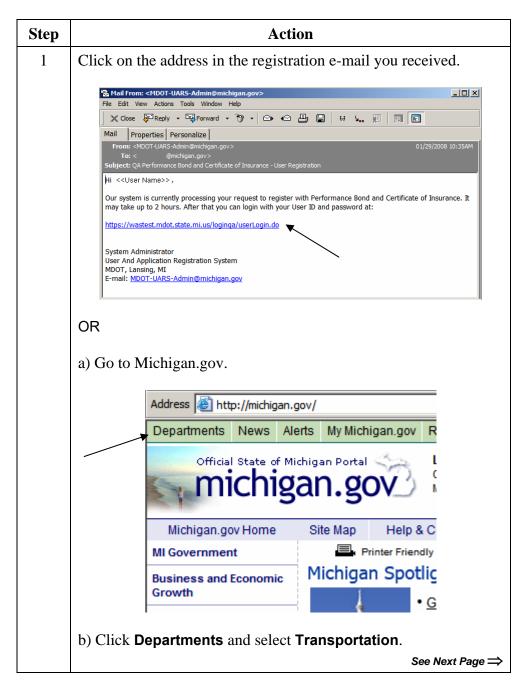
Lauri Olsen
Departmental Technician
Lan-Rl Estate-Env Asmn-Utl Prm
(517) 241-3028
olsenl@michigan.gov

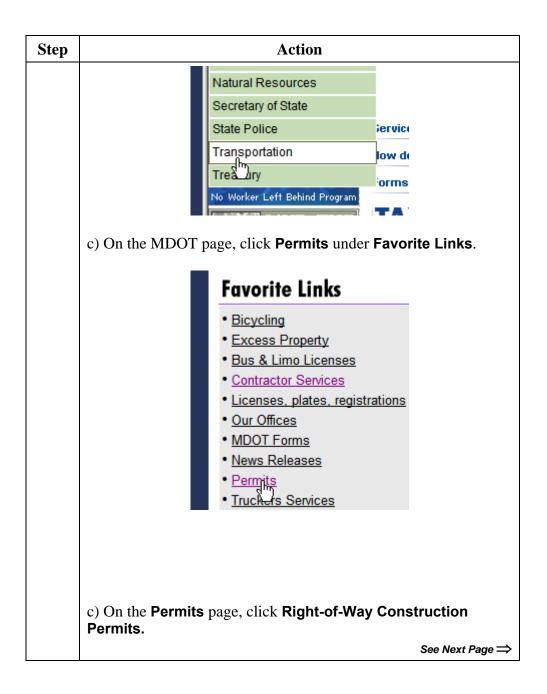
• Use these instructions to access, complete, and submit Web-based versions of performance bond and insurance forms.

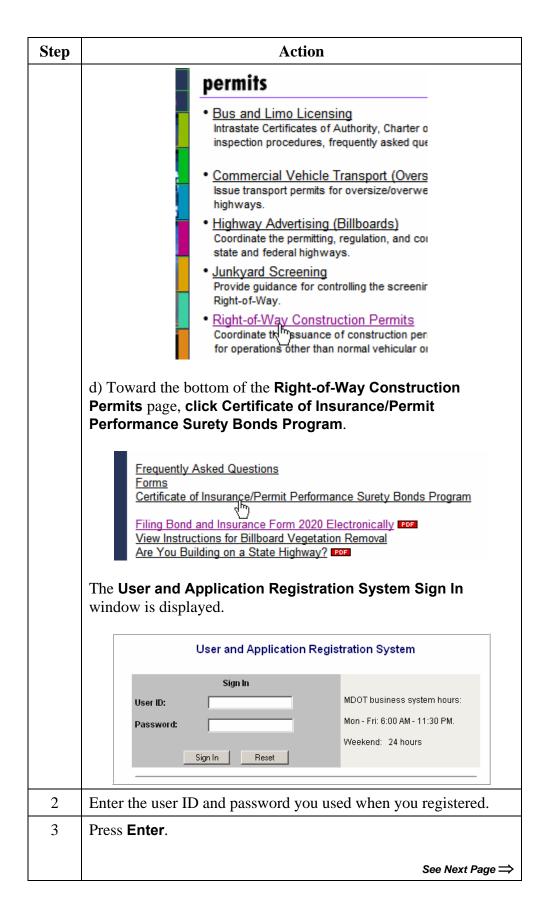
# **Access Online Forms**

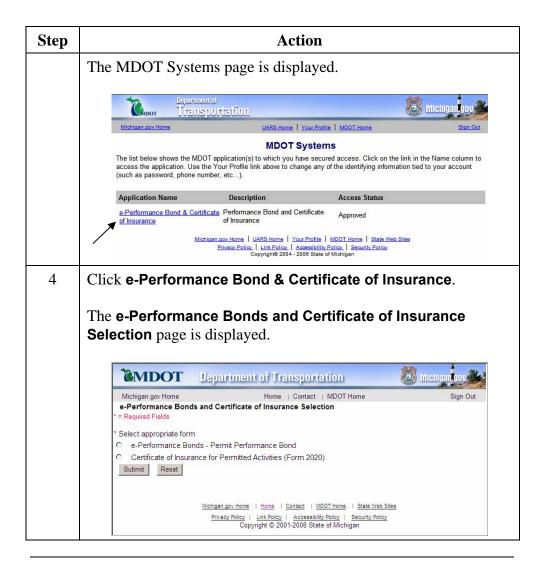
### **Procedure**

Use the following procedure to access the e-Performance Bond and Certificate of Insurance application.









# **Orientation to Web-Based (Online) Application**

## 

- All fields marked with a red asterisk (\*) must be filled in. For example: To continue from the screen shown above, you must select the form you want to work with.
- Click **Home** from any screen to return to this page.

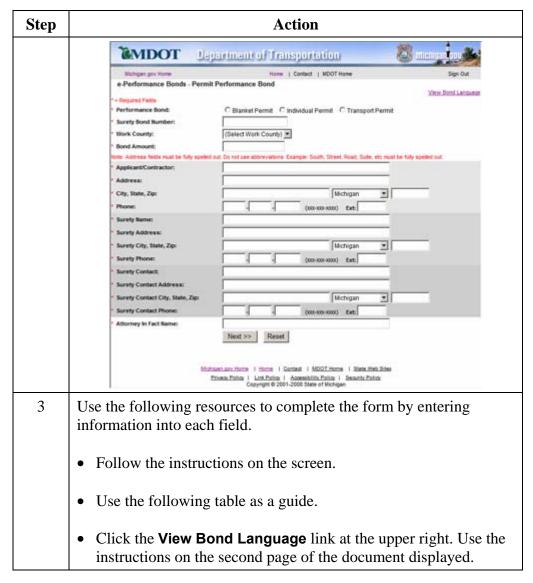
# e-Performance Bonds - Permit Performance Bond

## **Procedure**

Use the following procedure to display, complete, and submit the bond form.

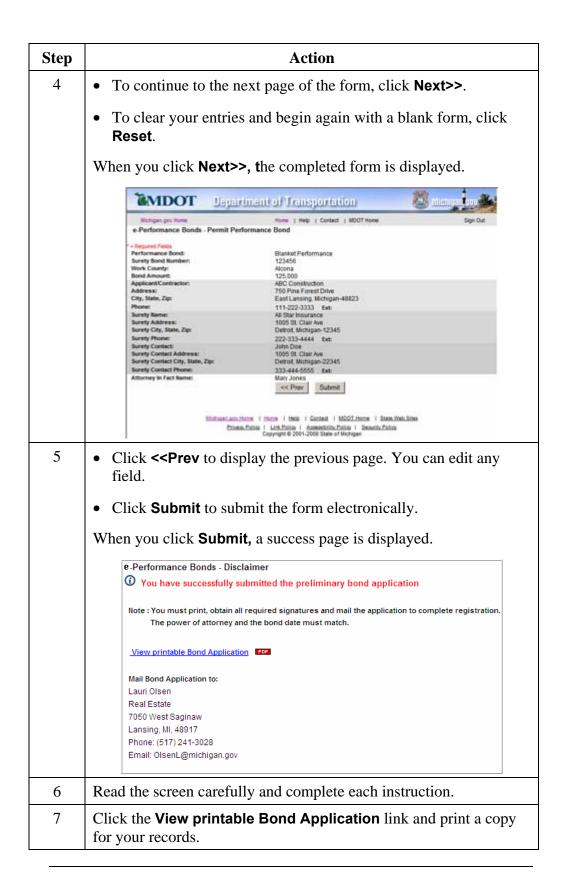


Step	Action
1	On the Home page, select e-Performance Bonds – Permit Performance Bond.
2	Click Submit.
	The e-Performance Bonds – Permit Performance Bond page displays.
	See Next Page ⇒



Required Field	Completion Instructions
Performance Bond	Select Blanket Permit for annual permits. One bond can be attached to up to 20 permits.
	Select Individual Permit for an individual permit. One bond can be attached to only one permit.
	Select <b>Transport Permit</b> for a superload permit. One bond can be attached to only one permit. MDOT recommends use of this bond when a load is extremely heavy and/or oversize and could potentially cause damage to the highway infrastructure.
	See Next Page ⇒

Required Field	<b>Completion Instructions</b>
Surety Bond Number	Enter the bond's policy or ID number (assigned by the surety company.)
Work County	a. Click on the arrow .
	b. From the list of counties displayed, select the county where the permitted activities are performed.
	c. If the work is statewide and/or involves multiple counties, select Statewide.
Bond Amount	Enter the bonded amount.
	Do not enter a minus sign, dollar symbol, or comma when entering numbers on the screen.
Applicant/ Contractor	Enter the name of the applicant or principal business entity.
	Enter details as labeled in the next three fields.
Surety Name	Enter the name of the insurance (surety) company authorized to do business in the State of Michigan.
	Enter details as labeled in the next three fields.
Surety Contact (in event of claim)	Enter the name of the primary contact at the insurance company.
	Enter details as labeled in the next three fields.
Attorney in Fact Name	Enter the name of the Power of Attorney for the bond.
	See Next Page ⇒



# **Certificate of Insurance for Permitted Activities (Form 2020)**

### **Procedure**

A certificate of insurance (Form 2020) is required by the applicant and/or contractor to verify that the applicant and/or contractor doing the work has the appropriate insurance coverage.

1 The certificate of insurance must be renewed annually.



Use the following procedures to display, complete, and submit Form 2020.

Step	Action
1	On the Home page, select Certificate of Insurance for Permitted Activities (Form 2020).
2	Click Submit.
	Form 2020 is displayed as shown on the following page.  See Next Page ⇒

anuals of rules and rate, except the de excavating with mechanical equiriving, cofferdam work, or building in 1. The subscribing company agreduction in coverage by the exception of the property of the subscribing company ago by the insurance Company for the subscribing company ago ancels or reduces the coverage by the subscribing company for the subscribing compan	T BE SUBMITTED ON F link to read the instruc- certifies that insurance titen in accordance wit the insurance shall in priment; and (b) collaps- moving or demolition.  prees to give 30 days p insurance Company fir- rees to give 10 days p or nonpayment of preer rees to give 10 days p or nonpayment of preer moves to give immediate rage of any insurance  Street  Policy Number  1 0,000.00	NCE FORM 2020. ctions) be of the type th the compencive, but it the compencive, but it for reasons or structure for reasons or for vertice for reasons or for the form of the form o	ANY OTHER FORM to eas and limits of liability and ye regular policies not be limited to, coveral injury to structure in notice to the Michiga other than nonpayme notice to the Michigan Dielow.  City  City  Gromula: (A+B) o  Policy Effective	INITIES S RIVALD.  y listed below have and endorsement range for: (a) under so due to blashing of the partment of T int of premium. In Department of T repartment of Tran the partment of Tran the par	ts subject to the c perground damage is prexplosion, exca presponding to the control of the presentation in the elements portation in the elements p	company's applicable to facilities due to drilling vation, tunneling, pile he event of cancellation he event of cancellation he event of cancellation vent the contractor
LL INSURANCE INFORMATION MUS atructions for Form 2020 (Click the he subscribing insurance company) or the policy period indicated.  Lich insurance, here certified, is write the policy period indicated.  Lich insurance, here certified, is write and a control of the policy period indicated.  Lich insurance, here certified, is write and a control of the policy period indicated and excavating with mechanical company as preduction in coverage by the company as preduction in coverage by the insurance Company is a cancels or reduces the cove total company as preduction in coverage by the insurance company as preduction in coverage by the insurance company as cancels or reduces the cove total control of the coverage	T BE SUBMITTED ON F link to read the instruc- certifies that insurance titen in accordance wit the insurance shall in priment; and (b) collaps- moving or demolition.  prees to give 30 days p insurance Company fir- rees to give 10 days p or nonpayment of preer rees to give 10 days p or nonpayment of preer moves to give immediate rage of any insurance  Street  Policy Number  1 0,000.00	FORM 2020. ctions) te of the type th the comp include, but it se or structu prior written for reasons prior written for reasons prior written mium.  FORM 2020.  POLICY AN	ANY OTHER FORM to eas and limits of liability and ye regular policies not be limited to, coveral injury to structure in notice to the Michiga other than nonpayme notice to the Michigan Dielow.  City  City  Gromula: (A+B) o  Policy Effective	s RVALD.  y lated below have and endorsementage for: (a) unde side to blasting of the side	ts subject to the c perground damage or explosion, exca ransportation in the ransportation in the e m.  ne:  https://doi.org/10.1006/1	company's applicable to facilities due to drillin vation, tunneling, pile he event of cancellation he event of cancellation event the contractor  Zip Code
setructions for Form 2020 (Click the he subscribing insurance company) or the policy period indicated, unch insurance, here certified, is write and rate, except the and rate, except with mechanical equivalence of the policy with mechanical equivalence of the policy with mechanical equivalence of the policy of the policy with mechanical equivalence of the policy of	link to read the instruct certifies that insurance witten in accordance witten in accordance witten in accordance witten in surance shall in preent; and (b) collapsinoving or demolition.  The structure of the s	ctions) se of the type th the comp th the comp include, but it se or structu prior written for reasons prior written for reasons to	es and limits of liability conny's regular policies not be limited to, cove ural injury to structure a notice to the Michiga other than nonpayme notice to the Michigan below.  City  Total  To	and endorsemen rage for. (a) under side to blasting of the side to blasting of	ts subject to the c perground damage or explosion, exca ransportation in the ransportation in the e m.  ne:  https://doi.org/10.1006/1	company's applicable to facilities due to drillin vation, tunneling, pile he event of cancellation he event of cancellation event the contractor  Zip Code
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_						
Authorized Representative:			*Title:			
Date: 04/10/2008 * Telephone:		-				
Note: By entering your name on Aut	thorized Representative	ve, you are r	responsible for the int	formation provided	on the form.	
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Click Instructions for Form 2020 and read the instructions.  Read the paragraph that begins "The subscribing insurance cocertifies".
<b>3</b>
5 Enter information into the following required fields:
* Name of Insured: Telephone: State Zip Code MICHIGAN
6 Review the formula:
Formula Description:
A (General Liability & Category & Minimum Limits) AND C (Category & Minimum Limits - ONLY Bodily Injury and/or damage)  OR  D (Excess Liability and Category & Minimum Limits)  D cancels out A, B & C  Insurance Type  Limits
insurance Type Limits
A Commercial conered The minimum limits
A Commercial general The minimum limits shall be \$1,000,000 each occurrence and \$2,000,000 aggregate
liability shall be \$1,000,000 each occurrence and
liability shall be \$1,000,000 each occurrence and \$2,000,000 aggregate  B Combined single limit for bodily injury and property  \$1,000,000 each occurrence

Property damage

D

\$1,000,000 each occurrence

The insurance limits (in A, B, C) may be attained through an umbrella policy

Step	Action
7	• If you use option (A + B):
	a) Use the section identifiers (A, B, C, D) along the right edge of the form to locate sections A and B.
	b) Find the field descriptions and instructions in the following table.
	c) Complete the fields in sections <b>A</b> and <b>B</b> .
	d) Continue at step 8.
	• If you use option (A + C):
	a) Use the section identifiers (A, B, C, D) along the right edge of the form to locate sections A and C.
	b) Find the field descriptions and instructions in the following table.
	c) Complete the fields in sections <b>A</b> and <b>C</b> .
	d) Continue at step 8.
	• If you use option <b>D</b> :
	a) Use the section identifiers (A, B, C, D) along the right edge of the form to locate section D.
	b) Find the field descriptions and instructions in the following table.
	c) Complete the fields in section <b>D</b> .
	d) Continue at step 8.

Form 2020 Field	Instructions
GENERAL LIABILITY COMMERCIAL GENERAL OCCURRENCE	Select one.
Policy Number	Enter the policy number.
	See Next Page ⇒

Form 2020 Field	Instructions
Policy Effective Date	Click the calendar icon and then click the date you want to insert in the field.
Policy Expiration Date	
CATEGORY & MINIMUM LIMITS  GENERAL AGGREGATE - \$2,000,000.00	Select General Aggregate and Each Occurrence.
PRODUCTS - COMP/OP AGG.  PERSONAL AND ADV.INJURY  EACH OCCURRENCE - \$1,000,000.00  FIRE DAMAGE(Any one fire)	Select other applicable categories.
POLICY AMOUNT	For each category selected, enter the policy amount.  • Enter numbers only. Do not enter dollar signs, commas, or decimal points.
AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS	Select one or more.
Policy Number	For each policy selected, enter the policy number.
Policy Effective Date	For each policy selected, enter the policy effective and expiration dates.
Policy Expiration Date	Click the calendar icon and then click the date you want to insert in the field.
CATEGORY & MINIMUM LIMITS  COMBINED SINGLE LIMIT - \$1,000,000.00	Click to select.  See Next Page ⇒

Form 2020 Field	Instructions
POLICY AMOUNT	Enter the policy amount.
	• Enter numbers only. Do not enter dollar signs, commas, or decimal points.
BODILY INJURY(Per person) - \$500,000.00  BODILY INJURY(Per accident) - \$1,000,000.00  PROPERTY DAMAGE - \$1,000,000.00	Select Bodily Injury (Per person), Bodily Injury (Per accident) and Property Damage.
POLICY AMOUNT	Enter the policy amount for each category.
	Enter numbers only. Do not enter dollar signs, commas, or decimal points.
EXCESS LIABILITY  UMBRELLA FORM	Click to select.
Policy Number	Enter the policy number.
Policy Effective Date	Click the calendar icon and then click the date you want to insert in the field.
Policy Expiration Date	
CATEGORY & MINIMUM LIMITS	Select Each Occurrence and Aggregate.
☐ EACH OCCURRENCE - \$1,000,000.00 ☐ AGGREGATE - \$1,000,000.00	
POLICY AMOUNT	Enter the policy amount for each category.
	• Enter numbers only. Do not enter dollar signs, commas, or decimal points.

Step	Action
8	If the work is permitted and bonded as Individual <i>and</i> if the work will be done in a county that requires it, fill out the <b>Additional Insured</b> section of the form.
	See Next Page ⇒

Step	Action
9	Read the <b>Note</b> on the bottom line of the form.
10	Fill in the Authorized Representative, Title and Telephone required fields.
	The system supplies the date.
11	Review step 7 and the data you entered on Form 2020.
12	Edit fields as necessary.
13	<ul> <li>Click Submit to submit the form electronically.</li> <li>To clear your entries and begin again with a blank form, click Reset</li> </ul>
	When you click <b>Submit</b> , a success page is displayed.
14	Click the <b>Printer Friendly</b> icon and print a copy of Form 2020 for your records.

# Exhibit 7 MDOT Certificate of Agency

Michigan Department of Transportation 2209 (07/08)

# **CERTIFICATE OF AGENCY**

For Individual Permit Performance Bonds

This form must be completed and attached to a bond presented in		APPLICATION NO.	
connection with a permit application where the principal in the bond is			
not the permittee named on the permit.		DEPARTMENT BOND NO.	
We the undersigned certify that			has the authority to act
		Bond Principal	
as agent for	Permit Applicant		in connection with the work to be performed
under the above permit application		ccents all the resn	onsibilities for performance indicated in the
	-	·	orisibilities for performance indicated in the
issued permit, regardless of any ot	iner contractual relations	nips.	
PERMIT APP	LICANT		BOND PRINCIPAL
NAME		NAME	
SIGNATURE		SIGNATURE	
DATE		DATE	
Michigan Department of Transportation 2209 (07/08)		TE OF AGE	
This form must be completed	and attached to a bo	nd presented in	APPLICATION NO.
connection with a permit applica		•	
not the permittee named on the			DEPARTMENT BOND NO.
We the undersigned certify that			has the authority to act
		Bond Principal	
as agent for	Permit Applicant		in connection with the work to be performed
under the above permit applicatio		ccepts all the resp	onsibilities for performance indicated in the
issued permit, regardless of any ot	-		
PERMIT APP		hips.	
NAME		hips.	BOND PRINCIPAL
INAIVIE		hips.	BOND PRINCIPAL
SIGNATURE			BOND PRINCIPAL
		NAME	BOND PRINCIPAL

# Exhibit 8 CSX Railroad Permit

#### FACILITY ENCROACHMENT AGREEMENT

THIS AGREEMENT, Made and effective as of October 9, 2019, by and between CSX TRANSPORTATION, INC., a Virginia corporation, whose mailing address is 500 Water Street, Jacksonville, Florida 32202, hereinafter called "Licensor," and CITY OF FLINT, a municipal corporation, political subdivision or state agency, under the laws of the State of Michigan, whose mailing address is 1101 S. Saginaw St., Rm 203, Flint, Michigan 48502, hereinafter called "Licensee," WITNESSETH:

WHEREAS, Licensee desires to construct (unless previously constructed and designated as existing herein), use and maintain the below described facility(ies), hereinafter called "Facilities," over, under or across property owned or controlled by Licensor, at the below described location(s):

1. One (1) thirty-six inch (36") diameter sub-grade pipeline crossing, solely for the conveyance of potable water, located at or near Flint, Genesee County, Michigan, Great Lakes Zone Division, Saginaw Subdivision, Valuation Station 46+45, Milepost CC-30.4, Latitude N43:03:32.03, Longitude W83:40:06.66;

hereinafter, called the "Encroachment," as shown on print(s) labeled Exhibit "A," attached hereto and made a part hereof;

NOW, THEREFORE, in consideration of the mutual covenants, conditions, terms and agreements herein contained, the parties hereto agree and covenant as follows:

### 1. LICENSE:

- 1.1 Subject to Article 17, Licensor, insofar as it has the legal right, power and authority to do so, and its present title permits, and subject to:
- (A) Licensor's present and future right to occupy, possess and use its property within the area of the Encroachment for any and all purposes;
- (B) All encumbrances, conditions, covenants, easements, and limitations applicable to Licensor's title to or rights in the subject property; and
- (C) Compliance by Licensee and its agent or contractor ("Licensee's Contractor") with the terms and conditions herein contained;

does hereby license and permit Licensee to construct, maintain, repair, renew, operate, use, alter or change the Facilities at the Encroachment above for the term herein stated, and to remove same upon termination.

1.2 The term <u>Facilities</u>, as used herein, shall include only those structures and ancillary facilities devoted exclusively to the transmission usage above within the Encroachment, and as shown on attached Exhibit A.

1.3 No additional structures or other facilities shall be placed, allowed, or maintained by Licensee in, upon or on the Encroachment except upon prior separate written consent of Licensor.

## 2. ENCROACHMENT FEE; TERM:

- 2.1 Licensee shall pay Licensor a one-time nonrefundable Encroachment Fee of FIVE THOUSAND ONE HUNDRED AND 00/100 U.S. DOLLARS (\$5,100.00) upon execution of this Agreement. Licensee agrees that the Encroachment Fee applies only to the original Licensee under this Agreement. In the event of a successor (by merger, consolidation, reorganization and/or assignment) or if the original Licensee changes its name, then Licensee shall be subject to payment of Licensor's current administrative and document preparation fees for the cost incurred by Licensor in preparing and maintaining this Agreement on a current basis.
- 2.2 However, Licensee assumes sole responsibility for, and shall pay directly (or reimburse Licensor), any additional annual taxes and/or periodic assessments levied against Licensor or Licensor's property solely on account of said Facilities or Encroachment.
- 2.3 This Agreement shall terminate as herein provided, but shall also terminate upon: (a) Licensee's cessation of use of the Facilities or Encroachment for the purpose(s) above; (b) removal of the Facilities; (c) subsequent mutual consent; and/or (d) failure of Licensee to complete installation within five (5) years from the effective date of this Agreement.
- 2.4 In further consideration for the license or right hereby granted, Licensee hereby agrees that Licensor shall not be charged or assessed, directly or indirectly, with any part of the cost of the installation of said Facilities and appurtenances, and/or maintenance thereof, or for any public works project of which said Facilities is a part.

### 3. CONSTRUCTION, MAINTENANCE AND REPAIRS:

- 3.1 Licensee shall construct, maintain, relocate, repair, renew, alter, and/or remove the Facilities, in a prudent, workmanlike manner, using quality materials and complying with any applicable standard(s) or regulation(s) of Licensor (CSXT Specifications), or Licensee's particular industry, National Electrical Safety Code, or any governmental or regulatory body having jurisdiction over the Encroachment.
- 3.2 Location and construction of Facilities shall be made strictly in accordance with design(s) and specifications furnished to and approved by Licensor and of material(s) and size(s) appropriate for the purpose(s) above recited.
- 3.3 All of Licensee's work, and exercise of rights hereunder, shall be undertaken at time(s) satisfactory to Licensor, and so as to eliminate or minimize any impact on or interference with the safe use and operation of Licensor's property and appurtenances thereto.
- 3.4 In the installation, maintenance, repair and/or removal of said Facilities, Licensee shall not use explosives of any type or perform or cause any blasting without the

separate express written consent of Licensor. As a condition to such consent, a representative will be assigned by Licensor to monitor blasting, and Licensee shall reimburse Licensor for the entire cost and/or expense of furnishing said monitor.

- 3.5 Any repairs or maintenance to the Facilities, whether resulting from acts of Licensee, or natural or weather events, which are necessary to protect or facilitate Licensor's use of its property, shall be made by Licensee promptly, but in no event later than thirty (30) days after Licensee has notice as to the need for such repairs or maintenance.
- 3.6 Licensor, in order to protect or safeguard its property, rail operations, equipment and/or employees from damage or injury, may request immediate repair or renewal of the Facilities, and if the same is not performed, may make or contract to make such repairs or renewals, at the sole risk, cost and expense of Licensee.
- 3.7 Neither the failure of Licensor to object to any work done, material used, or method of construction or maintenance of said Encroachment, nor any approval given or supervision exercised by Licensor, shall be construed as an admission of liability or responsibility by Licensor, or as a waiver by Licensor of any of the obligations, liability and/or responsibility of Licensee under this Agreement.
- 3.8 All work on the Encroachment shall be conducted in accordance with Licensor's safety rules and regulations.
- 3.9 Licensee hereby agrees to reimburse Licensor any loss, cost or expense (including losses resulting from train delays and/or inability to meet train schedules) arising from any failure of Licensee to make repairs or conduct maintenance as required by Section 3.5 above or from improper or incomplete repairs or maintenance to the Facilities or Encroachment.
- 3.10 In the event it becomes necessary for the Licensee to deviate from the approved Exhibit, Licensee shall seek prior approval from Licensor, or when applicable, an official field representative of Licensor permitted to approve changes, authorizing the necessary field changes and Licensee shall provide Licensor with complete As-Built Drawings of the completed work. As-Built Drawings shall be submitted to Licensor in either electronic or hard copy form upon the substantial completion of the project and upon Licensor's request.
- 3.11 In the event of large scale maintenance/construction work to railroad bridges Licensee is required to protect power lines with insulated covers or comparable safety devices at their costs during construction/maintenance for safety of railroad employees.

#### 4. PERMITS, LICENSES:

4.1 Before any work hereunder is performed, or before use of the Encroachment for the contracted purpose, Licensee, at its sole cost and expense, shall obtain all necessary permit(s) (including but not limited to zoning, building, construction, health, safety or environmental matters), letter(s) or certificate(s) of approval. Licensee expressly agrees and warrants that it shall conform and limit its activities to the terms of such permit(s), approval(s)

and authorization(s), and shall comply with all applicable ordinances, rules, regulations, requirements and laws of any governmental authority (State, Federal or Local) having jurisdiction over Licensee's activities, including the location, contact, excavation and protection regulations of the Occupational Safety and Health Act (OSHA) (29 CFR 1926.651(b)), et al., and State "One Call" - "Call Before You Dig" requirements.

4.2 Licensee assumes sole responsibility for failure to obtain such permit(s) or approval(s), for any violations thereof, or for costs or expenses of compliance or remedy.

#### 5. MARKING AND SUPPORT:

- 5.1 With respect to any <u>subsurface</u> installation or maintenance upon Licensor's property, Licensee, at its sole cost and expense, shall:
  - (A) support track(s) and roadbed in a manner satisfactory to Licensor;
- (B) backfill with satisfactory material and thoroughly tamp all trenches to prevent settling of surface of land and roadbed of Licensor; and
- (C) either remove any surplus earth or material from Licensor's property or cause said surplus earth or material to be placed and distributed at location(s) and in such manner Licensor may approve.
  - 5.2 After construction or maintenance of the Facilities, Licensee shall:
    - (A) Restore any track(s), roadbed and other disturbed property; and
- (B) Erect, maintain and periodically verify the accuracy of aboveground markers, in a form approved by Licensor, indicating the location, depth and ownership of any underground Facilities or related facilities.
- 5.3 Licensee shall be solely responsible for any subsidence or failure of lateral or subjacent support in the Encroachment area for a period of three (3) years after completion of installation.

#### 6. TRACK CHANGES:

- 6.1 In the event that rail operations and/or track maintenance result in changes in grade or alignment of, additions to, or relocation of track(s) or other facilities, or in the event future use of Licensor's rail corridor or property necessitate any change of location, height or depth in the Facilities or Encroachment, Licensee, at its sole cost and expense and within thirty (30) days after notice in writing from Licensor, shall make changes in the Facilities or Encroachment to accommodate such track(s) or operations.
- 6.2 If Licensee fails to do so, Licensor may make or contract to make such changes at Licensee's cost.

#### 7. FACILITY CHANGES:

- 7.1 Licensee shall periodically monitor and verify the depth or height of the Facilities or Encroachment in relation to the existing tracks and facilities, and shall relocate the Facilities or change the Encroachment, at Licensee's expense, should such relocation or change be necessary to comply with the minimum clearance requirements of Licensor.
- 7.2 If Licensee undertakes to revise, renew, relocate or change in any manner whatsoever all or any part of the Facilities (including any change in voltage or gauge of wire or any change in circumference, diameter or radius of pipe or change in materials transmitted in and through said pipe), or is required by any public agency or court order to do so, plans therefor shall be submitted to Licensor for approval before such change. After approval, the terms and conditions of this Agreement shall apply thereto.

#### 8. INTERFERENCE WITH RAIL FACILITIES:

- 8.1 Although the Facilities/Encroachment herein permitted may not presently interfere with Licensor's railroad or facilities, in the event that the operation, existence or maintenance of said Facilities, in the sole judgment of Licensor, causes: (a) interference (including, but not limited to, physical or interference from an electromagnetic induction, or interference from stray or other currents) with Licensor's power lines, communication, signal or other wires, train control system, or electrical or electronic apparatus; or (b) interference in any manner, with the operation, maintenance or use of the rail corridor, track(s), structures, pole line(s), devices, other property, or any appurtenances thereto; then and in either event, Licensee, upon receipt of written notice from Licensor of any such interference, and at Licensee's sole risk, cost and expense, shall promptly make such changes in its Facilities or installation, as may be required in the reasonable judgment of the Licensor to eliminate all such interference. Upon Licensee's failure to remedy or change, Licensor may do so or contract to do so at Licensee's sole cost.
- 8.2 Without assuming any duty hereunder to inspect the Facilities, Licensor hereby reserves the right to inspect same and to require Licensee to undertake repairs, maintenance or adjustments to the Facilities, which Licensee hereby agrees to make promptly, at Licensee's sole cost and expense.

#### 9. RISK, LIABILITY, INDEMNITY:

With respect to the relative risk and liabilities of the parties, it is hereby agreed that:

9.1 To the fullest extent permitted by State law (constitutional or statutory, as amended), Licensee hereby agrees to, defend, indemnify, and hold Licensor harmless from and against any and all liability, loss, claim, suit, damage, charge or expense which Licensor may suffer, sustain, incur or in any way be subjected to, on account of death of or injury to any person whomsoever (including officers, agents, employees or invitees of Licensor), and for damage to or loss of or destruction of any property whatsoever, arising out of, resulting from, or in any way connected with the construction, repair, maintenance, replacement, presence, existence,

operations, use or removal of the Facilities or any structure in connection therewith, or restoration of premises of Licensor to good order or condition after removal, EXCEPT when proven to have been caused solely by the willful misconduct or gross negligence of Licensor. HOWEVER, to the fullest extent permitted by State law, during any period of actual construction, repair, maintenance, replacement or removal of the Facilities, wherein agents, equipment or personnel of Licensee are on the railroad rail corridor, Licensee's liability hereunder shall be absolute, irrespective of any joint, sole or contributory fault or negligence of Licensor.

- 9.2 Licensee's Contractor shall hereby agree to, defend, indemnify, and hold Licensor harmless from and against any and all liability, loss, claim, suit, damage, charge or expense which Licensor may suffer, sustain, incur or in any way be subjected to, on account of death of or injury to any person whomsoever (including officers, agents, employees or invitees of Licensor), and for damage to or loss of or destruction of any property whosoever, arising out of resulting from, or in any way connected with the construction, repair, maintenance, replacement, presence, existence, operations, use or removal of the Facilities or any structure in connection therewith, or restoration of premises of Licensor to good order or condition after removal, EXCEPT when proven to have been caused solely by the willful misconduct or gross negligence of Licensor. HOWEVER, to the fullest extent permitted by State law, during any period of actual construction, repair, maintenance, replacement or removal of the Facilities, wherein agents, equipment or personnel of Licensee are on the railroad rail corridor, Licensee's liability hereunder shall be absolute, irrespective of any joint, sole or contributory fault or negligence of Licensor.
- 9.3 Use of Licensor's rail corridor involves certain risks of loss or damage as a result of the rail operations. Notwithstanding Section 9.1, Licensee expressly assumes all risk of loss and damage to Licensee's Property or the Facilities in, on, over or under the Encroachment, including loss of or any interference with use or service thereof, regardless of cause, including electrical field creation, fire or derailment resulting from rail operations. For this Section, the term "Licensee's Property" shall include property of third parties situated or placed upon Licensor's rail corridor by Licensee or by such third parties at request of or for benefit of Licensee.
- 9.4 To the fullest extent permitted by State law, as above, Licensee assumes all responsibility for, and agrees to defend, indemnify and hold Licensor harmless from: (a) all claims, costs and expenses, including reasonable attorneys' fees, as a consequence of any sudden or nonsudden pollution of air, water, land and/or ground water on or off the Encroachment area, arising from or in connection with the use of this Encroachment or resulting from leaking, bursting, spilling, or any escape of the material transmitted in or through the Facilities; (b) any claim or liability arising under federal or state law dealing with either such sudden or nonsudden pollution of air, water, land and/or ground water arising therefrom or the remedy thereof; and (c) any subsidence or failure of lateral or subjacent support of the tracks arising from such Facilities leakage.
- 9.5 Notwithstanding Section 9.1, Licensee also expressly assumes all risk of loss which in any way may result from Licensee's failure to maintain either required clearances for

any overhead Facilities or the required depth and encasement for any underground Facilities, whether or not such loss(es) result(s) in whole or part from Licensor's contributory negligence or joint fault.

- 9.6 Obligations of Licensee hereunder to release, indemnify and hold Licensor harmless shall also extend to companies and other legal entities that control, are controlled by, subsidiaries of, or are affiliated with Licensor, as well as any railroad that operates over the rail corridor on which the Encroachment is located, and the officers, employees and agents of each.
- 9.7 If a claim is made or action is brought against Licensor, and/or its operating lessee, for which Licensee may be responsible hereunder, in whole or in part, Licensee shall be notified to assume the handling or defense of such claim or action; but Licensor may participate in such handling or defense.
- 9.8 Notwithstanding anything contained in this Agreement, the limitation of liability contained in the state statutes, as amended from time to time, shall not limit Licensor's ability to collect under the insurance policies required to be maintained under this Agreement.

#### 10. INSURANCE:

- 10.1 Prior to commencement of surveys, installation or occupation of premises pursuant to this Agreement, Licensee shall procure and shall maintain during the continuance of this Agreement, at its sole cost and expense, a policy of
  - (i) Statutory Worker's Compensation and Employers Liability Insurance with available limits of not less than ONE MILLION AND 00/100 U.S. DOLLARS (\$1,000,000.00).
  - (ii) Commercial General Liability coverage (inclusive of contractual liability) with available limits of not less than FIVE MILLION AND 00/100 U.S. DOLLARS (\$5,000,000.00)in combined single limits for bodily injury and property damage and covering the contractual liabilities assumed under this Agreement and naming Licensor, and/or its designee, as additional insured. The evidence of insurance coverage shall be endorsed to provide for thirty (30) days' notice to Licensor, or its designee, prior to cancellation or modification of any policy. Mail CGL certificate, along with agreement, to CSX Transportation, Inc., Speed Code J180, 500 Water Street, Jacksonville, FL 32202. On each successive year, send certificate to RenewalCOI@csx.com.
  - (iii) Business automobile liability insurance with available limits of not less than ONE MILLION AND 00/100 U.S. DOLLARS (\$1,000,000.00) combined single limit for bodily injury and/or property damage per occurrence naming Licensor, and/or its designee, as additional insured.

- (iv) The insurance policies must contain a waiver of subrogation against CSXT and its Affiliates, except where prohibited by law. All insurance companies must be A.
   M. Best rated A- and Class VII or better.
- (v) Such other insurance as Licensor may reasonably require.
- (vi) Licensee shall require its contractors to meet minimum insurance requirements above when performing work in relation to this agreement. Licensee will procure and review contractor's insurance certificates to confirm requirements are met. Licensor may request a copy of the insurance certificate.
- 10.2 If Licensee's Contractor's existing CGL policy(ies) do(es) not automatically cover Licensee's contractual liability during periods of survey, installation, maintenance and continued occupation, a specific endorsement adding such coverage shall be purchased by Licensee's Contractor. If said CGL policy is written on a "claims made" basis instead of a "per occurrence" basis, Licensee shall arrange for adequate time for reporting losses. Failure to do so shall be at Licensee's sole risk.
- 10.3 Licensor, or its designee, may at any time request evidence of insurance purchased by Licensee to comply with this Agreement. Failure of Licensee to comply with Licensor's request shall be considered a default by Licensee.
- 10.4 To the extent permitted by law and without waiver of the sovereign immunity of Licensee, securing such insurance shall not limit Licensee's liability under this Agreement, but shall be security therefor.
- 10.5 (A) In the event Licensee finds it necessary to perform construction or demolition operations within fifty feet (50') of any operated railroad track(s) or affecting any railroad bridge, trestle, tunnel, track(s), roadbed, overpass or underpass, Licensee shall: (a) notify Licensor; and (b) require Licensee's Contractor(s) performing such operations to procure and maintain during the period of construction or demolition operations, at no cost to Licensor,
  - i) Railroad Protective Liability (RPL) Insurance, naming Licensor, and/or its designee, as Named Insured, written on the current ISO/RIMA Form (ISO Form No. CG 00 35 04 13) with limits of FIVE MILLION AND 00/100 U.S. DOLLARS (\$5,000,000.00) per occurrence for bodily injury and property damage, with at least TEN MILLION AND 00/100 U.S. DOLLARS (\$10,000,000.00) aggregate limit per annual policy period. The original of such RPL policy shall be sent to and approved by Licensor prior to commencement of such construction or demolition. Licensor reserves the right to demand higher limits.

OR

ii) The CGL policy shall include endorsement ISO CG 24 17 and the Auto Liability Policy shall include endorsement ISO CA 20 70 evidencing that coverage is provided for work within 50 feet of a railroad. If such endorsements are not included, RPL insurance must be provided.

- (B) At Licensor's option, in lieu of purchasing RPL insurance or the 50 foot endorsements from an insurance company (but not CGL insurance), Licensee may pay Licensor, at Licensor's current rate at time of request, the cost of adding this Encroachment, or additional construction and/or demolition activities, to Licensor's Railroad Protective Liability (RPL) Policy for the period of actual construction. This coverage is offered at Licensor's discretion and may not be available under all circumstances.
- 10.6 Notwithstanding the provisions of Sections 10.1 and 10.2, Licensee, pursuant to State Statute(s), may self-insure or self-assume, in any amount(s), any contracted liability arising under this Agreement, under a funded program of self-insurance, which fund will respond to liability of Licensee imposed by and in accordance with the procedures established by law.

#### 11. GRADE CROSSINGS; PROTECTION SERVICES:

- 11.1 Nothing herein contained shall be construed to permit Licensee or Licensee's contractor to move any vehicles or equipment over the track(s), except at public road crossing(s), without separate prior written approval of Licensor.
- 11.2 If Licensor deems it advisable, during any construction, maintenance, repair, renewal, alteration, change or removal of said Facilities, to place watchmen, flagmen, or field construction managers for protection of operations of Licensor or others on Licensor's rail corridor at the Encroachment, and to keep persons, equipment or materials away from the track(s), Licensor shall have the right to do so at the expense of Licensee, but Licensor shall not be liable for failure to do so.

#### 12. LICENSOR'S COSTS:

- 12.1 Any additional or alternative costs or expenses incurred by Licensor to accommodate Licensee's continued use of Licensor's property as a result of track changes or wire changes shall also be paid by Licensee.
- 12.2 Licensor's expense for wages ("force account" charges) and materials for any work performed at the expense of Licensee pursuant hereto shall be paid by Licensee within thirty (30) days after receipt of Licensor's bill therefor. Licensor may, at its discretion, request an advance deposit for estimated Licensor costs and expenses.
- 12.3 Such expense shall include, but not be limited to, cost of railroad labor and supervision under "force account" rules, plus current applicable overhead percentages, the actual cost of materials, and insurance, freight and handling charges on all material used. Equipment rentals shall be in accordance with Licensor's applicable fixed rate. Licensor may, at its discretion, require advance deposits for estimated costs of such expenses and costs.

#### 13. DEFAULT, BREACH, WAIVER:

13.1 The proper and complete performance of each covenant of this Agreement shall be deemed of the essence thereof, and in the event Licensee fails or refuses to fully and

completely perform any of said covenants or remedy any breach within thirty (30) days after receiving written notice from Licensor to do so (or within forty-eight (48) hours in the event of notice of a railroad emergency), Licensor shall have the option of immediately revoking this Agreement and the privileges and powers hereby conferred, regardless of encroachment fee(s) having been paid in advance for any annual or other period. Upon such revocation, Licensee shall make removal in accordance with Article 14.

- 13.2 No waiver by Licensor of its rights as to any breach of covenant or condition herein contained shall be construed as a permanent waiver of such covenant or condition, or any subsequent breach thereof, unless such covenant or condition is permanently waived in writing by Licensor.
- 13.3 Neither the failure of Licensor to object to any work done, material used, or method of construction or maintenance of said Encroachment, nor any approval given or supervision exercised by Licensor, shall be construed as an admission of liability or responsibility by Licensor, or as a waiver by Licensor of any of the obligations, liability and/or responsibility of Licensee under this Agreement.

#### 14. TERMINATION, REMOVAL:

- 14.1 All rights which Licensee may have hereunder shall cease upon the date of (a) termination, (b) revocation, or (c) subsequent agreement, or (d) Licensee's removal of the Facility from the Encroachment. However, neither termination nor revocation of this Agreement shall affect any claims and liabilities which have arisen or accrued hereunder, and which at the time of termination or revocation have not been satisfied; neither party, however, waiving any third party defenses or actions.
- 14.2 Within thirty (30) days after revocation or termination, Licensee, at its sole risk and expense, shall (a) remove the Facilities from the rail corridor of Licensor, unless the parties hereto agree otherwise, (b) restore the rail corridor of Licensor in a manner satisfactory to Licensor, and (c) reimburse Licensor any loss, cost or expense of Licensor resulting from such removal.

#### 15. NOTICE:

- 15.1 Licensee shall give Licensor at least thirty (30) days written notice before doing any work on Licensor's rail corridor, except that in cases of emergency shorter notice may be given. Licensee shall provide proper notification as follows:
- a. For non-emergencies, Licensee shall submit online via the CSX Property Portal from Licensor's web site, via web link: https://propertyportal.csx.com/pub\_ps\_res/ps\_res/jsf/public/index.faces
- b. For emergencies, Licensee shall complete all of the steps outlined in Section 15.1 a. above, and shall also include detailed information of the emergency. Licensee shall also call and report details of the emergency to Licensor's Rail Operations Emergency

Telephone Number: 1-800-232-0144. In the event Licensor needs to contact Licensee concerning an emergency involving Licensee's Facility(ies), the emergency phone number for Licensee is: 810-577-8267.

- 15.2 All other notices and communications concerning this Agreement shall be addressed to <u>Licensee</u> at the address above, and to <u>Licensor</u> at the address shown on Page 1, c/o CSXT Contract Management, J180; <u>or</u> at such other address as either party may designate in writing to the other.
- 15.3 Unless otherwise expressly stated herein, all such notices shall be in writing and sent via Certified or Registered Mail, Return Receipt Requested, or by courier, and shall be considered delivered upon: (a) actual receipt, or (b) date of refusal of such delivery.

#### **16. ASSIGNMENT:**

- 16.1 The rights herein conferred are the privileges of Licensee only, and Licensee shall obtain Licensor's prior written consent to any assignment of Licensee's interest herein; said consent shall not be unreasonably withheld.
- Subject to Sections 2 and 16.1, this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors or assigns.
- 16.3 Licensee shall give Licensor written notice of any legal succession (by merger, consolidation, reorganization, etc.) or other change of legal existence or status of Licensee, with a copy of all documents attesting to such change or legal succession, within thirty (30) days thereof.
- 16.4 Licensor expressly reserves the right to assign this Agreement, in whole or in part, to any grantee, lessee, or vendee of Licensor's underlying property interests in the Encroachment, upon written notice thereof to Licensee.
- 16.5 In the event of any unauthorized sale, transfer, assignment, sublicense or encumbrance of this Agreement, or any of the rights and privileges hereunder, Licensor, at its option, may revoke this Agreement by giving Licensee or any such assignee written notice of such revocation; and Licensee shall reimburse Licensor for any loss, cost or expense Licensor may incur as a result of Licensee's failure to obtain said consent.

#### 17. TITLE:

17.1 Licensee understands that Licensor occupies, uses and possesses lands, rights-of-way and rail corridors under all forms and qualities of ownership rights or facts, from full fee simple absolute to bare occupation. Accordingly, nothing in this Agreement shall act as or be deemed to act as any warranty, guaranty or representation of the quality of Licensor's title for any particular Encroachment or segment of Rail Corridor occupied, used or enjoyed in any manner by Licensee under any rights created in this Agreement. It is expressly understood that Licensor does not warrant title to any Rail Corridor and Licensee will accept the grants and

privileges contained herein, subject to all lawful outstanding existing liens, mortgages and superior rights in and to the Rail Corridor, and all leases, licenses and easements or other interests previously granted to others therein.

- The term "license," as used herein, shall mean with regard to any portion of 17.2 the Rail Corridor which is owned by Licensor in fee simple absolute, or where the applicable law of the State where the Encroachment is located otherwise permits Licensor to make such grants to Licensee, a "permission to use" the Rail Corridor, with dominion and control over such portion of the Rail Corridor remaining with Licensor, and no interest in or exclusive right to possess being otherwise granted to Licensee. With regard to any other portion of Rail Corridor occupied, used or controlled by Licensor under any other facts or rights, Licensor merely waives its exclusive right to occupy the Rail Corridor and grants no other rights whatsoever under this Agreement, such waiver continuing only so long as Licensor continues its own occupation, use or control. Licensor does not warrant or guarantee that the license granted hereunder provides Licensee with all of the rights necessary to occupy any portion of the Rail Corridor. Licensee further acknowledges that it does not have the right to occupy any portion of the Rail Corridor held by Licensor in less than fee simple absolute without also receiving the consent of the owner(s) of the fee simple absolute estate. Further, Licensee shall not obtain, exercise or claim any interest in the Rail Corridor that would impair Licensor's existing rights therein.
- 17.3 Licensee agrees it shall not have nor shall it make, and hereby completely and absolutely waives its right to, any claim against Licensor for damages on account of any deficiencies in title to the Rail Corridor in the event of failure or insufficiency of Licensor's title to any portion thereof arising from Licensee's use or occupancy thereof.
- 17.4 Licensee agrees to fully and completely indemnify and defend all claims or litigation for slander of title, overburden of easement, or similar claims arising out of or based upon the Facilities placement, or the presence of the Facilities in, on or along any Encroachment(s), including claims for punitive or special damages.
- 17.5 Licensee shall not at any time own or claim any right, title or interest in or to Licensor's property occupied by the Encroachments, nor shall the exercise of this Agreement for any length of time give rise to any right, title or interest in Licensee to said property other than the license herein created.
- 17.6 Nothing in this Agreement shall be deemed to give, and Licensor hereby expressly waives, any claim of ownership in and to any part of the Facilities.
- 17.7 Licensee shall not create or permit any mortgage, pledge, security, interest, lien or encumbrances, including without limitation, tax liens and liens or encumbrances with respect to work performed or equipment furnished in connection with the construction, installation, repair, maintenance or operation of the Facilities in or on any portion of the Encroachment (collectively, "Liens or Encumbrances"), to be established or remain against the Encroachment or any portion thereof or any other Licensor property.

17.8 In the event that any property of Licensor becomes subject to such Liens or Encumbrances, Licensee agrees to pay, discharge or remove the same promptly upon Licensee's receipt of notice that such Liens or Encumbrances have been filed or docketed against the Encroachment or any other property of Licensor; however, Licensee reserves the right to challenge, at its sole expense, the validity and/or enforceability of any such Liens or Encumbrances.

#### 18. GENERAL PROVISIONS:

- 18.1 This Agreement, and the attached specifications, contains the entire understanding between the parties hereto.
- 18.2 Neither this Agreement, any provision hereof, nor any agreement or provision included herein by reference, shall operate or be construed as being for the benefit of any third person.
- 18.3 Except as otherwise provided herein, or in any Rider attached hereto, neither the form of this Agreement, nor any language herein, shall be interpreted or construed in favor of or against either party hereto as the sole drafter thereof.
- 18.4 This Agreement is executed under current interpretation of applicable Federal, State, County, Municipal or other local statute, ordinance or law(s). However, each separate division (paragraph, clause, item, term, condition, covenant or agreement) herein shall have independent and severable status for the determination of legality, so that if any separate division is determined to be void or unenforceable for any reason, such determination shall have no effect upon the validity or enforceability of each other separate division, or any combination thereof.
- 18.5 This Agreement shall be construed and governed by the laws of the state in which the Facilities and Encroachment are located.
- 18.6 If any amount due pursuant to the terms of this Agreement is not paid by the due date, it will be subject to Licensor's standard late charge and will also accrue interest at eighteen percent (18%) per annum, unless limited by local law, and then at the highest rate so permitted.
- 18.7 Licensee agrees to reimburse Licensor for all reasonable costs (including attorney's fees) incurred by Licensor for collecting any amount due under the Agreement.
- 18.8 The provisions of this License are considered confidential and may not be disclosed to a third party without the consent of the other party(s), except: (a) as required by statute, regulation or court order, (b) to a parent, affiliate or subsidiary company, (c) to an auditing firm or legal counsel that are agreeable to the confidentiality provisions, or (d) to Lessees of Licensor's land and/or track who are affected by the terms and conditions of this Agreement and will maintain the confidentiality of this Agreement.

- 18.9 Within thirty (30) days of an overpayment in a cumulative total amount of One Hundred Dollars (\$100.00) or more by Licensee to Licensor, Licensee shall notify Licensor in writing with documentation evidencing such overpayment. Licensor shall refund the actual amount of Licensee's overpayment within 120 days of Licensor's verification of such overpayment.
- 19.1 Licensee shall observe and abide by, and shall require Licensee's Contractors to observe and abide by the terms, conditions and provisions set forth in this Agreement. Prior to any commencement of work under this Agreement by Licensee's Contractor, Licensee shall require Licensee's Contractor to execute and deliver to Licensor the Contractor Acceptance form attached hereto as Schedule A to acknowledge Licensee's Contractor's agreement to observe and abide by terms and conditions of the Agreement.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement in duplicate (each of which shall constitute an original) as of the effective date of this Agreement.

Witness for Licensor:	CSX TRANSPORTATION, INC.
Smellyough	Ву:
	Dona Jadwin Print/Type Name:Sr. Manager Real Estate Services
	Print/Type Title:
Witness for Licensee:	CITY OF FLINT
Telfany Harrison	By: Robert Brussle
	Who, by the execution hereof, affirms that he/she has the authority to do so and to bind the Licensee to the terms and conditions of this Agreement.
	Print/Type Name: Robert Binisik
	Print/Type Title: Director of Public Works
	Tax ID No.: 38 - 600 4611
	Authority under Ordinance or
	Resolution No,
	Dated

#### Schedule "A"

#### CONTRACTOR'S ACCEPTANCE

This Amendment is and shall be a part of Agreement No. CSX895260, and is incorporated therein.

To and for the benefit of CSX TRANSPORTATION, Inc. (Licensor") and to induce Licensor to permit Contractor on or about Licensor's property for the purposed of performing work in accordance with the Agreement dated October 9, 2019, between Licensee and Licensor, Contractor hereby agrees to abide by and perform all applicable terms of the Agreement, including, but not limited to Sections 3, 9, 10 of the Agreement.

Witness for Licensor:	CSX TRANSPORTATION INC.
	By:
	Print/Type Name:
	Print/Type Title:
Witness for Licensee's Contractor	LICENSEE'S CONTRACTOR
withess for Electisee's Contractor	By: Who, by the execution hereof, affirms that he/she has the authority to do so and to bind the Licensee has the authority to do so and to bind the bind the Licensee to the terms and conditions of this Agreement
	NAME:
	TITLE:
	DATE:

# CSX-895260 EXHIBIT A

Flint, Genesee Co., MI

Midwest Region / Great Lakes Zone / Saginaw (TD) Subdivision

CSXT has Leased the Track and Right-of-Way to Lake State Railway Company (LSRC) Mile Post CC-30.4

(Adj. to RR Over Public DOT #232368T, West Blvd., Approx. 47-LF N of CSXT Bridge No. FB-0.9)

Val. Sta. 46+45 (GIS Map No. 18087) N43:03:32.03 / W83:40:06.66

## CSX PROPERTY SERVICES REVIEW No Exceptions X Exceptions Noted This review is for the general conformance with CSX utility aspects of the overall design shall remain with the facility owner. This review does not constitute approval t proceed without meeting all of CSX's safety and

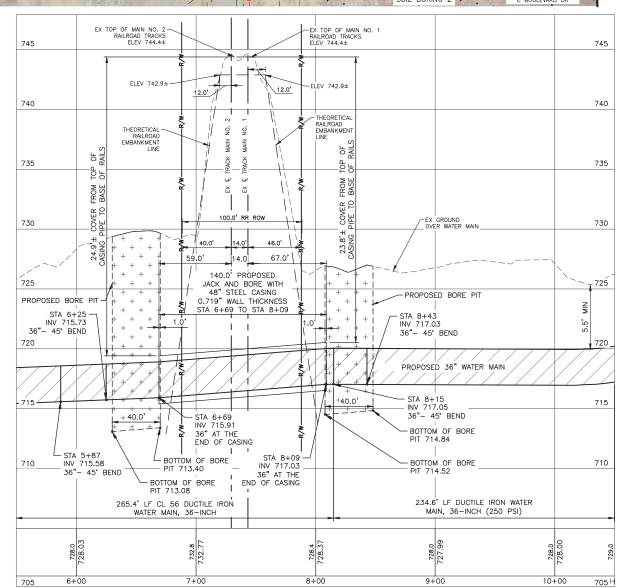
#### **CSX GENERAL NOTES:**

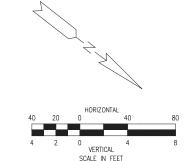
- 1. REFER TO THE CSX PIPELINE DESIGN & CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF
- 3. THE OPERATION SHALL BE PROGRESSED ON A 24-HOUR BASIS WITHOUT STOPPAGE (EXCEPT FOR ADDING LENGTHS OF PIPE) UNTIL THE LEADING EDGE OF THE PIPE HAS REACHED THE RECEIVING PIT.
- 4. THE AUGER AND CUTTING HEAD ARRANGEMENT SHALL BE REMOVABLE FROM WITHIN THE PIPE IN THE EVENT AN OBSTRÚCTION IS ENCOUNTERED.
- 5. PIPELINE SHALL BE PROMINENTLY MARKED AT BOTH SIDES OF THE CSX PROPERTY LINES BY DURABLE, WEATHERPROOF SIGNS LOCATED OVER THE CENTERLINE OF THE PIPE IN ACCORDANCE WITH CSX SPECIFICATIONS. 6. NO CONSTRUCTION OR ENTRY UPON THE CSX CORRIDOR IS PERMITTED UNTIL THE DOCUMENT TRANSACTION IS COMPLETED, YOU ARE IN RECEIPT OF A FULLY EXECUTED DOCUMENT, AND YOU HAVE OBTAINED AUTHORITY FROM THE LOCAL LSRC ROADMASTER.
- 7. IF REQUIRED, A DEWATERING PLAN IN ACCORDANCE WITH CSX SPECIFICATIONS WILL BE SUBMITTED TO THE CSX REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ANY DEWATERING OPERATIONS.
- 8. BLASTING IS NOT PERMITTED UNDER OR ON CSX PROPERTY.
  9. CSX DOES NOT GRANT OR CONVEY AN EASEMENT FOR THIS INSTALLATION.
- 10. ALL PERSONNEL SHALL RECEIVE SAFETY BRIEFINGS BY A LSRC FLAGMAN OR DESIGNATED CSXT REPRESENTATIVE EACH DAY BEFORE BEGINNING WORK ON THE RIGHT OF WAY. ADDITIONAL SAFETY BRIEFINGS MAY BE REQUIRED WHEN CONDITIONS AND/OR WORK SITES ARE CHANGED.
- 11. AGENCY OR ITS CONTRACTOR SHALL ARRANGE AND CONDUCT ITS WORK SO THAT THERE WILL BE NO INTERFERENCE WITH LSRC OPERATIONS, INCLUDING TRAIN, SIGNAL, TELEPHONE AND TELEGRAPHIC SERVICES, OR DAMAGES TO CSXT'S PROPERTY, OR TO POLES, WIRES, AND OTHER FACILITIES OF TENANTS OF CSXT'S PROPERTY OR RIGHT-OF-WAY.
- 12. CONTRACTOR ACCESS WILL BE LIMITED TO THE IMMEDIATE PROJECT AREA ONLY. THE CSXT RIGHT-OF-WAY OUTSIDE THE PROJECT AREA MAY NOT BE USED FOR CONTRACTOR ACCESS TO THE PROJECT SITE AND NO TEMPORARY AT-GRADE CROSSINGS WILL BE ALLOWED.
- 13. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL ACTIVE RAILROAD FACILITIES, INCLUDING ELECTRICAL, WATER LINES, SEWER LINES, COMMUNICATION AND SIGNAL LINES AS WELL AS UNDERGROUND PIPING. THE CONTRACTOR SHALL BE REQUIRED TO KEEP ALL EQUIPMENT AND MATERIAL A MINIMUM OF SIX (6) FEET FROM AFOREMENTIONED ELEVATED COMMUNICATION AND SIGNAL FACILITIES.
- 14. CONTRACTOR MUST CONDUCT ALL OF ITS WORK IN A SAFE MANNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH RULES, REGULATIONS, PROCEDURES AND SAFE PRACTICES OF CSXT, OSHA, THE FRA AND ALL OTHER GOVERNMENT AGENCIES HAVING JURISDICTION OVER THE PROJECT.
- 15. OWNER SHALL REIMBURSE LSRC AND CSXT DIRECTLY FOR ALL COSTS OF FLAGGING AND INSPECTION SERVICE THAT ARE REQUIRED ON ACCOUNT OF CONSTRUCTION WITHIN CSXT PROPERTY SHOWN IN THE PLANS, OR COVERED BY AN APPROVED PLAN REVISION, SUPPLEMENTAL AGREEMENT OR CHANGE ORDER. INSPECTION SERVICE SHALL NOT RELIEVE CONTRACTOR FROM LIABILITY FOR ITS WORK.
- 16. OWNER OR CONTRACTOR SHALL GIVE A MINIMUM OF 30 DAYS' ADVANCE NOTICE TO CSXT REPRESENTATIVE FOR ANTICIPATED NEED FOR FLAGGING AND INSPECTION SERVICE. NO WORK SHALL BE UNDERTAKEN UNTIL THE FLAG PERSON(S) AND INSPECTOR(S) IS/ARE AT THE JOB SITE. IF IT IS NECESSARY FOR CSXT TO ADVERTISE A FLAGGING JOB FOR BID, LSRC SHALL NOT BE LIABLE FOR THE COST OF DELAYS ATTRIBUTABLE TO OBTAINING SUCH
- 17. THE RIGHT OF WAY SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION PRIOR TO BEGINNING THE PROJECT BEFORE FINAL ACCEPTANCE WILL BE PROVIDED. PUNCH LISTS SHALL BE RESPONDED TO PRIOR TO ISSUANCE OF AN ACCEPTANCE MEMORANDUM SIGNED BY THE CSXT REPRESENTATIVE.
- 18. JACKING PIT: IDENTIFY HAZARDS AND PUT CONTROLS IN PLACE PRIOR TO START OF EXCAVATION. STAKE OR MARK PIT AS NEEDED FOR DIGGING. ESTABLISH A LAYDOWN AREA ABOVE THE FLOOD ZONE TO PLACE MÓTORIZED EQUIPMENT. PLACE SNOW FENCE AROUND PIT 20' BEYOND THE LEADING EDGE OF EXCAVATION. ALL EROSION CONTROL METHODS SHALL BE INSTALLED AND MAINTAINED USING BEST MANAGEMENT PRACTICES AS REQUIRED. APPLY LAYER OF WASHED STONE TO BASE OF EXCAVATION TO ESTABLISH PROPER LINE AND GRADE (6" MIN.).
- 19. EXCÂVATION: IF THE EXCAVATION IS 5 FEET OR GREATER IN DEPTH, THE WALLS MAY BE SLOPED AT 1.5 HORIZONTAL TO 1 VERTICAL TO REDUCE THE RISK OF CAVE-INS OR SLIDES. A SAFE MANNER IN WHICH TO ENTER AND EXIT THE EXCAVATION MUST BE ESTABLISHED.
- 20. PROJECTS THAT GENERATE SOILS FROM CSXT PROPERTY MUST ADHERE TO CSXT'S SOIL MANAGEMENT POLICIES. CSXT REQUIRES SOILS GENERATED FROM ITS PROPERTY TO EITHER BE REUSED ON CSXT PROPERTY OR PROPÉRLY DISPOSED IN A CSXT APPROVED DISPOSAL FACILITY. THE MANAGEMENT OF SOILS GENERATED FROM CSXT PROPÈRTY SHOULD BE PLANNED FOR AND PROPERLY PERMITTED (IF APPLICABLE) PRIOR TO INITIATING ANY WORK ON CSXT PROPERTY.
- 21. CONTRACTOR ALSO HAS THE SOLE RESPONSIBILITY OF ASCERTAINING THAT ALL OTHER UTILITIES HAVE BEEN PROPERLY LOCATED BY COMPLYING WITH THE LOCAL "CALL BEFORE YOU DIG" REGULATION(S). CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR NOTIFYING OWNERS OF ADJACENT PROPERTIES AND OF UNDERGROUND FACILITIES AND UTILITY OWNERS WHEN PROSECUTION OF THE WORK MAY AFFECT THEM, AND SHALL COOPERATE WITH THEM IN THE PROTECTION, REMOVAL, RELOCATION AND REPLACEMENT OF THEIR PROPERTY.
- 22. CONTRACTOR SHALL CONDUCT "PRE-DIG" MEETING PRIOR TO CONSTRUCTION WORK, WITH ALL SUBCONTRACTORS AND WORKERS TO REVIEW THE LOCATION OF ALL UTILITIES AS MARKED OUT, EXCAVATION PROCEDURES, AND TO CONFIRM THE "ONE CALL" REQUEST. ALL EXISTING UTILITIES ARE REQUIRED TO BE POTHOLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE PERFORMED IN ACCORDANCE WITH CSX SPECIFICATIONS. 23. BEFORE EXCAVATING, ALL SIGNAL CABLES AND OTHER UTILITIES MUST BE LOCATED AND MARKED/FLAGGED. CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES TO CSX SIGNAL FACILITIES.

#### **EXCEPTIONS NOTED:**

- 1. CONTRACTOR SHALL INCORPORATE AND BE GOVERNED BY THE FOLLOWING CSXT DOCUMENTS:
  - A. CONSTRUCTION SUBMISSION CRITERIA SECTION VI. TEMPORARY EXCAVATION AND SHORING
  - **B. SOIL AND WATER MANAGEMENT POLICY**
- 2. ACCESSIBLE EMERGENCY SHUT-OFF VALVES SHALL BE INSTALLED WITHIN 2,000 FEET ON BOTH SIDES OF THE PIPELINE CROSSING.

Tracking Number: 1029712 Sheet 1 of 2





## EX TOP OF RAILS 744.4± 740 X 735 730 725 PROP 48" STEEL CASING WITH 0.719" WALL THICNESS EX ROADWAY © ELEV 724.0± 720 -PROP 36" WATER MAIN INVERT WITHIN EX BOTTOM OF -CONC FOOTING ELEVATION UNKNOWN RR BORE VARIES BETWEEN 717.03± AND 715.91± 715 715 PIPE SUPPORTED -WITHIN CASING BY WOOD SKIDS WITH CASING PIPE ENDS IN ACCORDANCE METAL BANDS WITH CSXT SPECS. 710

SECTION OF 36" WATER MAIN AT RAILROAD CROSSING

#### CSX CONSTRUCTION NOTES

1. CSXT LEASED RAILROAD TO LAKE STATE RAILWAY CO. CSXT MANAGES THE UTILITY LICENSES

1. CITY OF FLINT / CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION EASEMENTS FROM CONSUMERS POWER (ADJACENT LANDOWNER) FOR WORK ON CONSUMERS POWER RIGHT OF WAY.

#### **EXCAVATION**

- 1. THE TOE OF RAILROAD EMBANKMENT SLOPE SHALL IN NO CASE BE UNDERCUT / UNDERMINED BY POWER SHOVELS, BULLDOZERS, GRADERS, BLASTING, OR IN ANY MANNER
- 2. CONTRACTOR SHALL BE GOVERNED BY CSXT CONSTRUCTION SUBMISSION CRITERIA SEC. VI TEMPORARY SHORING, INCLUDED IN THE CONTRACT DOCUMENTS.

SPOILS

1. CONTRACTOR SHALL BE GOVERNED BY CSXT SOIL AND WATER MANAGEMENT POLICY, INCLUDED IN THE CONTRACT DOCUMENTS.

#### DEWATERING

- 1. IF DEWATERING IS NECESSARY, DEWATERING PLANS MUST BE APPROVED BY CXST
- 2. PUMPS OF SUFFICIENT CAPACITY TO HANDLE THE FLOW SHALL BE MAINTAINED AT THE SITE. PUMPS IN OPERATION SHALL BE CONSTANTLY ATTENDED ON A 24-HOUR BASIS UNTIL THE OPERATION CAN BE SAFELY HALTED. WHEN DEWATERING, A PROCESS FOR MONITORING FOR ANY SETTLEMENT OF TRACK OR STRUCTURES MUST BE IN PLACE.

#### SAFETY REQUIREMENTS

- 1. ALL OPERATIONS SHALL BE CONDUCTED SO AS NOT TO INTERFERE WITH. INTERRUPT, OR ENDANGER THE OPERATION OF TRAINS NOR DAMAGE, DESTROY, OR ENDANGER THE INTEGRITY OF RAILROAD FACILITIES. ALL WORK ON OR NEAR CSXT PROPERTY SHALL BE CONDUCTED IN ACCORDANCE WITH CSXT SAFETY RULES AND REGULATIONS. SPECIFICALLY ALL LICENSEE'S EMPLOYEES AND AGENTS, WHILE ON CSXT PROPERTY, SHALL BE REQUIRED TO WEAR AN ORANGE HARD HAT, SAFETY GLASSES WITH SIDE SHIELDS, 6" LACE UP BOOTS WITH A DISTINCT HEEL, SHIRTS WITH SLEEVES AND LONG PANTS: ADDITIONAL PERSONAL PROTECTIVE FOLIPMENT MAY BE REQUIRED FOR CERTAIN OPERATIONS INCLUDING ABRASIVE CUTTING, USE OF TORCHES, USE OF CHAINSAWS, ETC. THE CONTRACTOR AND IT'S EMPLOYEES SHALL COMPLY WITH THE CSXT SAFETY RULES AT ALL TIMES WHILE OCCUPYING CSXT'S PROPERTY. OPERATIONS WILL BE SUBJECT TO CSXT INSPECTION AT ANY
- 2. ALL CRANES, LIFTS, OR OTHER EQUIPMENT THAT WILL BE OPERATED IN THE VICINITY OF THE RAILROAD'S ELECTRIFICATION AND POWER TRANSMISSION FACILITIES SHALL BE ELECTRICALLY GROUNDED AS DIRECTED BY CSXT.
- . WHENEVER EQUIPMENT OR PERSONNEL ARE WORKING CLOSER THAN 25 FEET FROM THE CENTERLINE OF AN ADJACENT TRACK, THAT TRACK SHALL BE CONSIDERED AS BEING OBSTRUCTED. INSOFAR AS POSSIBLE, ALL OPERATIONS SHALL BE CONDUCTED NO LESS THAN THIS DISTANCE. ALL OPERATIONS SHALL BE CONDUCTED ONLY WITH THE PERMISSION OF, AND AS DIRECTED BY, A DULY QUALIFIED RAILROAD EMPLOYEE PRESENT AT THE SITE OF THE WORK. ALL COSTS RELATED TO RAILROAD PROTECTION WILL BE PASSED ON TO THE APPLICANT.
- CROSSING OF TRACKS AT GRADE BY EQUIPMENT AND PERSONNEL IS PROHIBITED EXCEPT BY PRIOR ARRANGEMENT WITH AND AS DIRECTED BY CSXT.

#### UTILITY NOTES

- PRIOR TO BEGINNING THE WORK. CONTRACTOR SHALL BE REQUIRED TO EXPOSE ALL EXISTING UTILITIES THAT CROSS OR ARE WITHIN THE INFLUENCE OF THE PROPOSED CONSTRUCTION, SO THE ENGINEER MAY DETERMINE IF A CONFLICT EXISTS BETWEEN AN EXISTING UTILITY AND THE PROPOSED WORK, ALL LABOR REQUIRED TO UNCOVER THE EXISTING UTILITY SHALL BE CONSIDERED INCLUSIVE TO THE UNIT PRICE OF THE WATER MAIN. THE CONTRACTOR SHALL VERIFY THE UTILITY SIZE, MATERIAL, DEPTH AND HORIZONTAL LOCATION OF ALL UTILITIES IN SUFFICIENT TIME SUCH THAT ANY CONFLICTS CAN BE RESOLVED BEFORE WORK IS STARTED.
- ALL EXISTING UTILITIES SHALL BE PROPERLY SUPPORTED AND REMAIN IN SERVICE AT ALL TIMES DURING THE PROJECT, UNLESS OTHERWISE INDICATED.
- LITHLITIES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE, OR REPLACED AS CALLED FOR ON THE PLANS.
  CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZE AND MATERIAL REQUIRED PRIOR TO REPLACING.

555 S. Saginaw Fint, M. 48502 810,235,2555 www.wadetrim.e



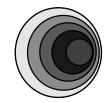
CITY OF FLINT
1101 S. SAGINAW STREET
FLINT, MI 48502
36" SECONDARY WATER SUPPLY
PLAN AND PROFILE SHEET 2 1101

ISSUED FOR: DATE: BY

OB NO. COF1068.01F

Know what's below. Call before you dig.

# Exhibit 9 Buckeye Partners Right-of-Way Use Restrictions



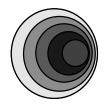
#### BUCKEYE PARTNERS, L.P. AND AFFILIATES Five TEK Park, 9999 Hamilton Boulevard Breinigsville, PA 18031

# Right-of-Way Use Restrictions Specification Revision 5

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#### Buckeye Partners, L.P. and Affiliates Right-of-Way Use Restrictions Specification Revision 5



#### **Purpose and Scope**

This Right-of-Way Use Restrictions Specification (hereinafter called "Specification") has been developed by Buckeye Partners, L.P. and Affiliates (hereinafter called "Buckeye") and is intended for landowners, utility owners, general contractors and their sub-contractors, pipeline/utility contractors, real estate developers, brokers and agents, lending officers and title underwriters, engineers, architects, surveyors, and local / governmental elected staffs (hereinafter called "Crossing Party") as a guideline for the design and construction of proposed land development.

Buckeye appreciates this opportunity to work with you in the planning stages of your development (or construction activity), and we look forward to working with you proactively. Buckeye's primary concern when activities are taking place near our pipeline is public safety and environmental protection. The intent of this Specification is to provide a clear and consistent set of requirements that will: (1) reduce the risk of damage to our pipeline and related facilities; (2) ensure unencumbered access to our right-of-way and pipeline facilities and the availability of adequate workspace for routine maintenance, future inspection, and/or repair work on our pipeline; and (3) enable the effective corrosion protection of our pipeline.

All such activities and projects that are performed near Buckeye's pipeline facilities are subject to formal review by Buckeye prior to issuance of final written approval. Depending on the scope of the project and its impact on Buckeye's pipeline facilities, additional engineering requirements and protective measures may apply. Furthermore, any damage caused by the encroaching party to Buckeye's pipeline(s), the pipeline cathodic protection system, or other Buckeye assets is the sole responsibility of the encroaching party. Buckeye will pursue reimbursement for all costs associated with the event including, but not limited to, excavation services, inspection services, pipeline repairs, and loss of operations.

The following requirements are not only the policy of Buckeye, but comply with regulations set forth by the United States Department of Transportation, Safety Regulations, 49 CFR, Parts 192 and 195.

We want to be a good neighbor, but to do so requires us to act responsibly in protecting our right-ofway and preventing damage to the pipeline system. While we want to make every effort to accommodate your desired use of your property, our responsibility for public safety is paramount. Through proper planning and communications, we can ensure the safety and integrity of our pipeline system and the welfare of our neighbors.

The transmittal of this Specification does not constitute Buckeye's approval or permission for the Crossing Party to begin construction or work within or across the pipeline right-of-way. Work may not commence until written authorization approving such work has been issued by Buckeye.

#### 1.0 General Guidelines

1.1 The safety of the pipeline must be considered at all times. No attempt to probe for or engage in any construction activities which might damage the pipeline is permitted.

- 1.2 Before any preliminary field work or construction begins in the vicinity of Buckeye's pipeline, a determination of the exact location and elevation of the pipeline must be made. To coordinate this procedure, please contact our local Field Operations Manager at the Buckeye facility nearest to your proposed project (see <a href="Attachment 1">Attachment 1</a> for a listing of Buckeye's facilities and telephone numbers). Buckeye makes no assurance that its permanent pipeline markers are positioned directly over its pipeline(s). Line markers should be placed at intervals determined by "line of sight". The relocation, removal, or destruction of Buckeye's pipeline markers are prohibited by federal law. Pipeline markers damaged or made unusable shall be repaired or replaced at the Encroaching Party's expense.
- 1.3 All proposed drawings/plans must be submitted to Buckeye's Right of Way Department for review to determine to what extent, if any, the pipeline or right-of-way will be affected by the proposed construction and/or development. These drawings/plans must be prepared in strict compliance to Attachment 4, "Requirements for Submission of Design Plans".
- 1.4 Buckeye may require the property owner to provide proof of current ownership of the land where the proposed encroachment is to occur. Such proof may be in the form of a Title Commitment, Title Policy, or a certified copy of a recorded Conveyance Deed.
- 1.5 When any construction activity is conducted in or around our pipeline right-of-way, Buckeye's On-Site Inspector must be present at all times. NO WORK SHALL TAKE PLACE WITHOUT A BUCKEYE ON-SITE INSPECTOR PRESENT. For this free-of-charge service, contact our local Field Operations Manager at the Buckeye facility nearest to your proposed project.
- 1.6 The Crossing Party shall contact Buckeye for re-marking of a pipeline if the existing markers are inadequate for any reason, including disturbance due to construction activities.
  - Note: Federal law prohibits the removal of pipeline markers.
- 1.7 The Crossing Party shall not burn trash, brush, or other items or substances within 50 feet of the pipeline.
- 1.8 The Crossing Party shall not store any equipment or materials on the right-of-way. Full access must be maintained to the pipeline(s) at all times. The stockpiling of items including soil, or topsoil over the pipeline(s) is not permitted.
- 1.9 During routine or emergency maintenance on the pipeline, the cost to restore approved surface improvements (e.g., pavement, landscaping, sidewalks, etc.) shall be the responsibility of the Crossing Party.
- 1.10 Depending on the type and nature of the encroachment, Buckeye may require the pipeline(s) within the proposed encroachment to be exposed, visually inspected, and backfilled by a Buckeye representative at the full expense of the Crossing Party. Buckeye will evaluate the pipeline(s) cathodic protection system, including the coating type and condition, for suitability of service in relation to the proposed encroachment. Should Buckeye deem that the cathodic protection system and/or coating system is insufficient for any reason, Buckeye will repair or upgrade the system at the Crossing Party's expense to accommodate the proposed encroachment. Potential cathodic protection modifications can include, but are not limited to equipment such as rectifiers, anode systems, test stations, casing pipe, and coating.

#### 2.0 Excavation and Construction Restrictions

2.1 Excavation operations shall be performed in accordance with appropriate State "One-Call" utility locating system requirements. As a matter of State law, anyone undertaking excavation work is required to call three (3) working days before excavating in MA, ME, MI, MO, NJ, PA, RI, SC, TN, and WI; two (2) working days in all other states (see <a href="Attachment 3">Attachment 3</a> for State "One-Call" numbers).

Know what's **below. Call** before you dig.

2.2 The Crossing Party will conduct "white-lining" of any proposed excavation areas. Buckeye will erect temporary pipeline markers/flags (yellow) identifying the location of the pipeline within the work area, and will provide information on how to respond should the pipeline be damaged or a commodity release occur. All personnel operating equipment over or around the pipeline

must be made aware of its location and what to do if they make contact with the pipeline.

Note: The Encroaching Party must utilize a qualified contractor of Buckeye's choice to locate and mark the existing Buckeye operated pipeline(s) using current industry practices and agrees to mark the location of the pipeline with buoys or by electronic location methods as approved by Buckeye for the duration of the construction activity in the vicinity of Buckeye's operated pipeline(s). If proposing dredging activities within 150-feet of Buckeye's pipeline(s), a dredging plan must be submitted to Buckeye for review and approval.

- 2.3 When a Crossing Party excavates near Buckeye's pipeline, a Buckeye representative must locate the pipeline and determine the depth of cover before the Crossing Party begins excavation. The Buckeye representative and the excavator must review and complete an Excavation Safety Checklist (<u>Attachment 9</u>). The Crossing Party shall not perform any excavation, crossing, backfilling, or construction operations until Buckeye's On-Site Inspector has reviewed the proposed work on site and given approval for work to proceed. Buckeye's On-Site Inspector shall have full authority to stop the work if it is determined that the work is being performed in an unsafe manner.
- 2.4 No equipment shall work directly over the pipeline. The Crossing Party shall install temporary fencing along Buckeye's right-of-way boundaries so that equipment will not inadvertently pass over the pipeline at locations other than those established for crossing (see Section 3.6).
- 2.5 When excavating within the right-of-way, the Crossing Party's backhoe shall have a plate welded over the teeth of the backhoe bucket, and the side cutters must be removed prior to excavation. However, if within 24 inches of the outer edge of the pipe (this "tolerance zone" extends on all sides of the pipe), only hand excavation, air cutting, and vacuum excavation are permitted.
- 2.6 No excavations shall be made on land adjacent to the pipeline that will in any way impair, withdraw lateral support, cause subsidence, create the accumulation of water, or cause damage to the pipeline or right-of-way.
- 2.7 The Crossing Party shall ensure all excavation work complies with OSHA's excavation standards outlined in 29 CFR 1926 and correct any noncompliant excavation site before Buckeye's On-Site Inspector or the Crossing Party enters the site to perform work.

- 2.8 If conditions require, the Crossing Party shall be directed by Buckeye to install sand or cement bags or other suitable insulating materials to maintain proper vertical clearance from the pipeline.
- 2.9 At any location where the pipeline is exposed, the Crossing Party shall provide Buckeye the opportunity to inspect the pipeline condition, install cathodic protection test leads, and/or install underground warning mesh.
- 2.10 The maximum unsupported exposed length of pipe shall be 20 feet for 4-inch-diameter pipe, 25 feet for 6-inch- to 10-inch-diameter pipe, and 35 feet for 12-inch- to 24-inch-diameter pipe. When required, the pipeline shall be supported with grout and sand bags or padded skids. At no time shall the pipeline be used as a brace to support equipment or sheeting/shoring materials.

Note: The Crossing Party shall submit a support plan for Buckeye's review and approval.

- 2.11 No buried pipeline may be left exposed for any duration of time without concurrence of Buckeye's On-Site Inspector.
- 2.12 Backfill and compaction shall be performed to the satisfaction and in the presence of Buckeye's On-Site Inspector. Within 5 feet of the pipeline crossing location, the Crossing Party shall place at least 12 inches of sand with no sharp gravel, rock, hard clods, vegetation, or other debris on all sides of any pipeline, and remaining backfill shall be placed so as not to disturb this padding material or damage the pipeline (see <a href="Attachment 7">Attachment 7</a> for Foreign Utility Crossing Detail). Backfill over the pipe shall be compacted by hand until 18 inches of cover is achieved. The disturbed ground shall be compacted to the same degree of compaction of surrounding areas. The Crossing Party shall restore the site to its original condition except for items that are part of the Buckeye approved change.

#### 3.0 Specific Guidelines

#### 3.1 Cover, Grading, and Drainage

#### 3.1.1 Cover and Grading:

- a. The existing cover over the pipeline shall not be modified without Buckeye's written approval.
- b. The final grading shall net a minimum cover of 36 inches over the pipeline.
- c. In areas where buildings are proposed within 50 feet of the pipeline or due to other surface improvements and/or in areas determined by Buckeye, final grading shall net a minimum cover of 48 inches over the pipeline.
- d. The maximum allowable constructed cross-slope within the ROW shall be 5H:1V and shall never be greater than the existing cross-slope.
- e. The maximum allowable cover/soil shall not exceed six (6) feet without Buckeye's written approval.
- f. Use of vibratory equipment larger than walk-behind units are not permitted within 25 feet of the pipeline.

#### 3.1.2 **Drainage**:

- a. Detention ponds, lakes, structures or any type of impoundment of water, temporary or permanent, are prohibited within the right-of-way.
- b. Culverts are not permitted within the right-of-way.

- c. Any modifications to an existing drainage pattern shall be designed such that the erosion of the pipeline cover is controlled.
- d. For streams, drainage channels, and ditches, a minimum of cover of 60 inches is required between the pipeline and the bottom of the drainage canal or ditch (see Section 3.3.1.f for road drainage ditches).

#### 3.2 Aboveground and Underground Structures

#### 3.2.1 **General Requirements**:

- a. Buildings or other structures, including, but without limitation, overhanging balconies, patios, decks, swimming pools, wells, walls, septic systems, propane tanks, transformer pads, manholes, valve boxes, storm drain inlets, utility poles, the storage of materials, or any other item which will create an obstruction or prevent the inspection of the right-of-way by air or foot, shall not be erected within the rightof-way.
- b. The Crossing Party shall not develop or build retaining walls, drive piling or sheeting, or install an engineered structure that develops or controls overburden loads that will impact the pipeline (see Section 3.9).
- c. Deep foundations which include piers, caissons, drilled shafts, bored piles, and cast-in-situ piles located within 500 feet of the pipeline shall be installed/drilled using an auger.
- d. Occupied structures shall not be located within 50 feet of the pipeline unless a minimum cover of 48 inches is provided above the top of the pipeline.
- e. Any deviation for aboveground and underground structures will be reviewed by Buckeye on a *case-by-case basis*.

#### 3.2.2 **Gardening and Landscaping**:

- a. Trees, shrubs and bushes are not permitted within the right-of-way. Trees planted outside of the right-of-way should be placed so branches and limbs will not overhang the pipeline right-of-way as the tree matures. Buckeye may trim/remove overhanging branches and limbs that encroach into the right-of-way.
- b. Flowerbeds, vegetable gardens and lawns, are permitted within the right-of-way. Buckeye is not responsible for replacing any plantings located within the right-of-way.

#### 3.2.3 Fences and Walls:

- a. Privacy fences or fences that prevent access to the right-of-way are not permitted.
- b. All other fence installations within the right-of-way will be reviewed for approval by Buckeye on a *case-by-case basis*. Upon Buckeye's written approval, fences shall be constructed with a 14-foot gate or removable sections across the right-of-way.
- c. Fence posts shall not be installed within 5 feet of the pipeline and must be equidistant if crossing the pipeline.
- d. No fence shall cross the right-of-way at less than a 60-degree angle.
- e. Fences that run parallel to the pipeline shall be installed outside the right-of-way.
- f. Masonry, brick, or stone walls are not permitted on the right-of-way.

#### 3.3 Roads, Driveways, Sidewalks, and Parking Areas

#### 3.3.1 **General Requirements**:

a. Roads, driveways, sidewalks, or parking areas shall not be constructed across the right-of-way without Buckeye's written approval. Upon Buckeye's approval, roads, driveways, and sidewalks shall cross perpendicular to the pipeline.

- b. The maximum allowable cover shall not exceed six (6) feet without Buckeye's written approval.
- c. Use of vibratory equipment larger than walk-behind units is not permitted within 25 feet of the pipeline.
- d. Roads or driveways shall not be installed longitudinally within the right-of-way.
- e. For roads and driveways, a minimum cover of 48 inches with a net cover of 36 inches of undisturbed soil is required above the pipeline.
- f. A minimum cover of 36 inches over the pipeline is required at road drainage ditches. Upon Buckeye's approval, this cover can be reduced to 24 inches if ditch is rock/rip-rap lined and 12 inches if ditch is concrete lined.
- g. For asphalt parking lots and sidewalks, a minimum cover of 36 inches with a net cover of 24 inches of undisturbed soil is required above the pipeline. Additional cover may be required by Buckeye based upon specific site conditions.
- h. Stockpiling of materials on the right-of-way is not permitted. These materials include, but are not limited to soil, snow, stone, boulders, trees, brush, grass clippings, leaves, etc.

#### 3.4 Foreign Utility Crossings

#### 3.4.1 **General Requirements**:

- a. Utilities shall cross perpendicular to the pipeline.
- b. Utilities are required to cross beneath the pipeline with a minimum clearance of 24 inches. Exceptions to Buckeye's clearance requirements for underground service entrances to single family dwellings will be reviewed on a *case-by-case basis*.
- c. Sand or select fill shall be placed between the pipeline and utility (see Section 2.8).
- d. Utilities installed parallel to the pipeline shall be reviewed by Buckeye on a *case-by-case basis*. If approved, the utility shall be no closer than 15 feet from the pipeline.
- e. Warning tape, in accordance with A.P.W.A. Uniform Color Code, shall be placed above utility, 12 inches below ground, for a distance of 25 feet on either side of crossing.
- f. Signage shall be placed at crossing as determined appropriate by Buckeye.
- g. Splice boxes, service risers, energized equipment, etc., are not permitted within the right-of-way.

#### h. Trenchless Excavations:

- [1] Utilities installed by a trenchless excavation method (directional drilling, jacking, slick boring, etc.) shall be reviewed by Buckeye on a *case-by-case basis*.
- [2] Buckeye reserves the right to select the method of crossing for the proposed utility.
- [3] A minimum clearance of 60 inches (5 feet) below the pipeline is required.
- [4] For directional drilling operations, a tracking system is required to verify the exact location of the drill head.
- [5] For perpendicular crossings, a 4 feet by 4 feet excavation window, 24 inches below the pipeline is required for visual inspection of the pipeline to ensure the drill (or bore) does not impact the pipeline.
- [6] Blind boring is not permitted within Buckeye's right-of-way.
- [7] When trenchless excavations are authorized by Buckeye parallel to and within 10 feet of an existing pipeline, observation holes shall be excavated at 25-foot intervals to monitor the progress and horizontal/vertical location of the drill head.
- [8] Buckeye must be provided with an advance copy of the horizontal directional drill (HDD) plan for the trenchless excavation which specifies how the HDD will

be tracked, monitored and controlled at least two weeks before work is to commence. The plan must detail preventative measures to prevent conflicts with Buckeye's existing facility. The plan must state the planned HDD bore diameters, rod lengths, ream diameters, method of guidance, method of drill head tracking, etc. Additionally, the plan needs to include procedures for continuous monitoring and reporting of the drill head location, and state the appropriate vertical and horizontal deviation tolerances for the HDD operations in accordance with API RP 1172 – "6 Final Design". The procedure must include reporting requirements and procedures to correct or shut down the HDD trajectory should the operation exceeds the established tolerances. Buckeye Operations must be notified immediately if tolerances are compromised and should be involved in the recommencement of operations after tolerances are exceeded.

#### 3.4.2 Metallic Utilities:

- a. Bonds and test leads shall be installed at the expense of and by the Crossing Party where Buckeye deems necessary.
- b. Utilities shall be coated with a non-conductive coating for a distance of 50 feet on either side of the pipeline crossing.
- c. Ductile water pipe shall include nitrile gaskets within 50 feet of the pipeline crossing or anywhere within 25 feet of horizontal offset locations.

#### 3.4.3 Non-Metallic Utilities:

- a. Utilities shall be wrapped with tracer wire within the width of the right-of-way.
- b. Natural gas (or other industrial gases) lines shall be encased in a 6-inch envelope of <u>yellow</u> 3,000 psi concrete across the right-of-way.
- c. PVC water pipe shall include nitrile gaskets within 50 feet of the pipeline crossing or anywhere within 25 feet of horizontal offset locations.

#### 3.4.4 Underwater Line Crossings:

- a. For underwater line location procedures, refer to section 2.2.
- b. The Encroaching Party must provide qualified diving inspectors to Buckeye for use during the crossing activity at no cost to Buckeye.
- c. The Encroaching Party must place sacks filled with sand and cement between Buckeye's pipeline(s) and the encroaching utility to provide and maintain the required minimum vertical clearance between the two utilities.

#### 3.4.5 Electrical, Fiber-Optic, and Communications Cables

#### a. Buried Cables:

- [1] Electrical conductors/cable installations shall meet minimum requirements of National Electric Code for buried conductors and be adequately shielded and be impervious to hydrocarbon liquids.
- [2] Cables are required to cross beneath the pipeline with a minimum clearance of 24 inches. Exceptions to Buckeye's clearance requirements for underground service entrances to single family dwellings will be reviewed on a *case-by-case basis*.
- [3] Sand or select fill shall be placed between the pipeline and cable (see Section 2.8)
- [4] All cables shall be installed in Schedule 80 PVC pipe and encased in a 6-inch envelope of <u>color coded</u> (i.e. <u>red</u> for electrical cable, <u>orange</u> for communication cable) 3,000 psi concrete for a minimum distance of 10 feet to each side of each BUCKEYE Pipeline(s) across the right-of-way.

- [5] Warning tape, in accordance with A.P.W.A. Uniform Color Code, shall be placed above the utility, 12 inches below ground, for a distance of 25 feet on either side of the crossing.
- [6] Signage for the crossing shall be placed as determined appropriate by Buckeye.

#### b. Aboveground Cables:

- [1] A minimum of 20 feet of above-grade clearance for a distance of 25 feet on each side of the pipeline is required.
- [2] Mechanical supports and service drops including poles, towers, guy wires, ground rods, anchors, etc., are not permitted within 25 feet of the pipeline.

#### 3.5 <u>Temporary Access Roads and Heavy/Construction Vehicle Crossings</u>

#### 3.5.1 **General Requirements**:

- a. The Encroaching Party shall provide Buckeye information as to the type, model, size, and axle weight of construction equipment that will be used over or in the vicinity of the pipeline(s).
- b. Trucks carrying a maximum axle load up to 15,000 pounds may cross the right-ofway after Buckeye has confirmed a minimum cover of 48 inches over the pipeline.
- c. For all other cases, earthen ramps (see <u>Attachment 6</u>), swamp mats, reinforced-concrete slabs (see <u>Attachment 5</u>), or steel plates may be required. Loading conditions and protection measures will be evaluated and dictated by Buckeye's Right of Way Department.
- d. When temporary fill must be added, colored sheets of plastic shall be placed under the temporary fill at original grade so that the original grade will not be disturbed when the temporary fill is removed.
- e. At all crossing locations, the Crossing Party will provide 12" of clean AASHTO 1 stone over the pipeline right-of-way.
- f. During the use of an approved temporary construction road, Buckeye may require that the Crossing Party provide additional protective measures deemed necessary to prevent damage to the pipeline.
- g. Buckeye will limit the number of temporary construction roads constructed by the Crossing Party.

#### 3.6 Railroad Crossings

#### 3.6.1 **General Requirements**:

- a. A minimum clearance of 72 inches is required between railroad tracks and the pipeline.
- b. A minimum cover of 36 inches is required between the bottom of drainage ditches on either side of a railroad and the pipeline.
- c. For railroad main lines, the pipeline crossing must comply with local railroad guidelines that delineate the requirements for carrier pipe, casing pipe, and clearances. Buckeye shall be consulted for the review of any State submittals.
- d. For private spur crossings, Buckeye will determine the railroad entity having jurisdictional authority to dictate crossing requirements.

#### 3.7 Farming and Field Tile

#### 3.7.1 **General Requirements**:

- a. Field tile running parallel to the pipeline shall be spaced 10 feet from the centerline of the pipeline.
- b. Field tile shall cross the pipeline perpendicularly with a clearance of 12 inches above or below the pipeline.
- c. Buckeye will approve the total number of crossings of the pipeline on a *case-by-case basis*.
- d. Deep plowing or "ripping" operations shall be approved by and coordinated with Buckeye.

#### 3.8 Construction-Induced Vibrations

#### 3.8.1 **General Requirements**:

- a. Construction activities that generate ground vibrations, including, but without limitation, pile driving, sheet driving, soil compaction work, jackhammering, or ramming, shall be reviewed by Buckeye on a *case-by-case basis*.
- b. If the Crossing Party anticipates such an activity within 300 feet of the pipeline, then continuous testing monitored by a seismograph located directly over the pipeline at its closest point to the activity must be conducted. The Crossing Party shall provide, at their expense, the monitoring service which must be approved by Buckeye.
- c. The particle velocity of any one component of a three-component seismograph must not exceed 2.0 inches per second as recorded on the seismograph placed directly over the pipeline.

#### 3.9 Blasting Operations

#### 3.9.1 Blasting within 500 feet of the pipeline right-of-way:

- a. The Crossing Party must submit a blast plan to Buckeye for review and approval. Verbal and written notice will be given 14 and 21 days respectively.
- b. Blasting plans must include the following information:
  - Dates blasting to occur
  - Explosives type
  - Maximum shot hole depth and diameter
  - Number of holes and spacing
  - Delay pattern
  - Delay types and intervals
  - Depth of overburden
  - Depth of blast area
  - Maximum charge per hole, per delay

- Show drilling/blasting pattern plan and profile in relation to Buckeye facilities
- Calculated radiant peak particle velocity (PPV) at varying distances from the pipeline and at the pipeline itself
- State permit (copy)
- Blasting contractor qualifications and insurance certificate (copy)
- Blasting Safety Plan (copy)

The Crossing Party shall complete <u>Attachment 8</u>, "Blasting Plan Submission Form", and include this form with their submission to Buckeye.

c. The Crossing Party shall make arrangements for a Buckeye On-site Inspector to be present to witness the blasting operation.

# 3.9.2 Blasting within 300 feet of the pipeline right-of-way: (Adds to or replaces items in Section 3.10.1)

- a. Blasting shall be monitored by a seismograph located directly over the pipeline at its closest point to the blast hole(s). The Crossing Party shall provide, at their expense, the monitoring service which must be approved by Buckeye.
- b. The particle velocity of any one component of a three-component seismograph must not exceed 2.0 inches per second as recorded on the seismograph placed on the ground directly over the pipeline.
- c. For blast testing, an initial test blast using a maximum charge of one pound shall be performed. The Crossing party shall detonate the first test blast with all necessary monitoring equipment in place to observe the results of the proposed blast design. Each subsequent test blast may be set and detonated only after the seismograph reading from the previous test blast indicates that further blasting can be safely conducted.
- d. Routine production blasting may be initiated after completion of a successful test blast, with allowable charge based on the seismographic vibration recordings of test blasts. However, all blasting must be continuously monitored by a seismograph. The velocity recorded must not exceed the 2.0 inches per second limit noted above.

# 3.9.3 Blasting within 50 feet of the pipeline right-of-way: (Adds to or replaces items in Section 3.10.2)

- a. The Crossing Party shall hire a consulting firm that specializes in underground blasting to conduct the seismograph survey and certify the results.
- b. Buckeye will approve the Crossing Party's selection of consulting firms that will conduct the seismographic surveys before starting any blasting operation.

#### 3.9.4 Special Requirements:

- a. For multiple-delay blasting, the Crossing Party shall begin the blasting sequence at the charge closest to the pipeline and progress away from the pipeline.
- b. If seismographic readings above the limit stated in item 3.10.2.d of this section are recorded, the pipeline must be exposed and inspected for possible damage and/or product release. The Crossing Party conducting blasting operations is responsible for all expenses related to the exposure and any subsequent repairs necessitated by the operation.
- c. At Buckeye's request, the Crossing Party shall install sheet piling, open trench channels, and/or matting to protect the pipeline during blasting operations.

#### 3.10 Seismic Vibrating Operations

#### 3.10.1 Seismic vibrating within 500 feet of the pipeline right-of-way:

- a. The Crossing Party must submit a seismic vibrating plan to Buckeye for review and approval. Verbal and written notice will be given 14 and 21 days respectively.
- b. Seismic vibrating plans, when using Vibroseis System Vibrators to radiate ground vibrations, must include information on soil conditions and depth of exploration, the anticipated number and type of vibrations, type and weight of vehicle, and peak force of equipment.
- c. The peak force by vehicle weight shall not exceed 45,000 pounds.
- d. The Crossing Party shall also make arrangements for a Buckeye On-Site Inspector to be present to witness the seismic vibrating operation.

#### 3.10.2 Seismic vibrating within 100 feet of the pipeline right-of-way:

a. Vibration shall be monitored by a seismograph located directly over the pipeline at its closest point to the vibrator(s). The Crossing Party shall provide, at their expense, the monitoring service which must be approved by Buckeye.

- b. The Crossing party shall determine and limit the maximum peak force allowed under continuous seismographic vibration monitoring such that the peak particle velocity will not exceed 2.0 inches per second.
- c. Seismic vibration surveys shall not be conducted closer than 100 feet to the pipeline.

#### 3.10.3 Special Requirements:

- a. If seismographic readings above the limit stated in item 3.11.2.b of this section are recorded, the pipeline must be exposed and inspected for possible damage and/or product release. The Crossing Party conducting seismic vibrating operations is responsible for all expenses related to the exposure and any subsequent repairs necessitated by the operation.
- b. At Buckeye's request, the Crossing Party shall install sheet piling and/or open trench channels to protect the pipeline during seismic vibrating operations.

#### 3.11 Wind Turbines

#### 3.11.1 Setback Distance from Pipelines

- a. Wind turbine structures shall be set back from any Buckeye pipeline at least a distance equal to 110% of the structure height, which is defined as the height of the entire wind turbine system as measured from the bottom of the base to the highest vertical point of the system including the base and tower and the highest reach of the turbines or blades.
- b. No facilities associated with a wind turbine installation project shall be permitted to be installed within the pipeline easement.
- c. Warning lights shall be installed on all wind turbines that are located within 1,200 feet of any Buckeye pipeline.

#### 3.11.2 Construction Equipment and Crane Crossings

- a. All temporary access roads and heavy/construction vehicle crossings shall comply with Section 3.6 above.
- b. Where cranes and other maintenance vehicles will need to cross Buckeye pipelines on a routine permanent basis for maintenance of the turbine(s), permanent crossing locations must be established, an encroachment agreement must be signed by the landowner and facility owner, and permanent crossing protections must be installed to the satisfaction of Buckeye.
- c. Construction materials or equipment shall not be transported longitudinally over Buckeye's pipelines.

#### 3.11.3 Underground Utilities

- a. Cables and electrical conduit shall crossings shall comply with Section 3.5 sbove.
- b. BUCKEYE may require at the expense of the CROSSING PARTY an AC Arc Fault Study, specific to the CROSSING PARTY'S project encroachments. The study will determine if there is adequate AC Arc Fault protection of and separation from BUCKEYE'S facilities. BUCKEYE will arrange for the engineering, design and installation of AC mitigation and Lightning suppression systems, as deemed necessary by the AC Arc Fault Study. The reasonable cost of such AC remediation and Lightning suppression systems shall be submitted to CROSSING PARTY for review and approval, which approval shall not be unreasonably delayed,

conditioned or withheld, and, upon approval such reasonable cost will be prepaid by CROSSING PARTY to BUCKEYE.

#### 4.0 Deviations and Exceptions

4.1 When and where special circumstances dictate, deviation from these requirements must be formally approved by Buckeye in writing prior to commencement of any excavation or other construction activity that may impact the pipeline. Any such deviations must be explained and documented and provided to Buckeye for review and approval.

#### 5.0 Additional Information and Buckeye Contacts

- 5.1 Should you have any questions regarding pipeline rights-of-way or your specific easement, contact Buckeye's Right of Way Department at the applicable phone number listed in Attachment 2.
- 5.2 Should you have any questions regarding Buckeye's engineering requirements, contact Buckeye's Encroachment Design Reviewer at <a href="mailto:encroachmentreviews@buckeye.com">encroachmentreviews@buckeye.com</a>.

# **Attachment 1: Buckeye Facility Locations and Phone Numbers**

Alabama	Birmingham	(205) 369-0179			
Alabama	Montgomery	(334) 309-4710			
California	San Diego	(714) 269-9028			
Commentions 9 Managements	Wethersfield	(860) 529-7781			
Connecticut & Massachusetts	New Haven	(203) 469-3479			
Florida	Port Everglades	(954) 522-8464			
Georgia	Birmingham (AL)	(205) 369-0179			
	Argo	(708) 259-1352			
IIII.a.a.ta	Lemont (West Shore)	(708) 227-0962			
Illinois	Kankakee	(815) 932-3029			
	Hartford	(618) 255-1100			
	Hammond	(219) 989-8601			
Indiana	Hammond (West Shore)	(708) 227-0962			
	Huntington	(260) 356-5802			
	Cedar Rapids	(708) 259-1352			
Laura	Council Bluffs	(712) 366-9461			
Iowa	Des Moines	(515) 226-4017			
	Ottumwa	(641) 684-6789			
Louisiana	Liberty (TX)	(936) 336-5773			
Maine	South Portland	(207) 808-4533			
Michigan	Wayne	(734) 721-8834			
	North St. Louis	(314) 231-2000			
Missouri	Sugar Creek	(816) 836-6000			
	Burlington Junction	(660) 725-3386			
Nevada	Reno	(760) 802-1535			
New Jersey	Linden	(908) 374-5301			
New York	Auburn	(315) 253-5395			
New York	New York City	(718) 656-5746			
North Carolina	Goldsboro	(919) 778-2712			
	Lima	(419) 993-8025			
Ohio	Mantua	(330) 274-2234			
	Toledo	(419) 698-8190			
	Boothwyn	(610) 459-3441			
	Coraopolis	(412) 264-7432			
Donnovlyonia	Duncansville	(814) 695-4852			
Pennsylvania	Malvern	(610) 695-8000			
	Mechanicsburg	(717) 766-7633			
	Macungie	(484) 232-4218			
Tennessee	Memphis	(901) 395-0122			
Texas	Liberty	(936) 336-5773			
Wiggenein	Milwaukee (West Shore)	(708) 227-0962			
Wisconsin	Madison (West Shore)	(815) 964-3727			

# Attachment 2: Right of Way & Engineering Contacts

Name	Responsibility	Phone / Address / Email
David Boone	Sr. Manager, Right of Way, Real Estate, and Damage Prevention	(610) 904-44015 TEK Park, 9999 Hamilton Blvd. Breinigsville, PA 18031dboone@buckeye.com
Chris McPike	Sr. Specialist, Right of Way Central District: Eastern Ohio, Pennsylvania (Central & Western)	(216) 271-8103 4800 East 49 <sup>th</sup> Street Cleveland, OH 44125 <u>CMcPike@buckeye.com</u>
Marty White	Sr. Specialist, Right of Way  West/Central District:  Michigan, Ohio (except for Eastern Ohio), Indiana (except for Northwestern Indiana)	(419) 993-8008 940 Buckeye Road Lima, OH 45804 MWhite@buckeye.com
Michael Norris	Sr. Specialist, Right of Way <u>West District</u> :  Northern & Central Illinois,  Northwestern Indiana,  Wisconsin	(219) 313-5321 12920 Bell Road Lemont, IL 60439 MRNorris@buckeye.com
Wesley Pekarek	Specialist, Right of Way II  West District: Iowa, Missouri, Southern Illinois	(816) 836-6096 1315 N. Sterling Ave. Sugar Creek, MO 64054 WPekarek@buckeye.com
Chris Scheid	Specialist, Right of Way I <u>East District</u> :  Northeast Pennsylvania, New York (Upstate), Maine	(484) 232-4454 5002 Buckeye Road Emmaus, PA 18049 CScheid@buckeye.com
Jeannette Fluke	Specialist, Right of Way I  East District: Southeastern and Central Pennsylvania, Maryland, Virginia	(610) 904-4404 5 TEK Park, 9999 Hamilton Blvd. Breinigsville, PA 18031 JFluke@buckeye.com
Emily Litwa	Specialist, Right of Way I  Northeast District: New Jersey, Connecticut, Massachusetts, New York	(732)-692-5243 750 Cliff Rd Port Reading, NJ 07064 ELitwa@buckeye.com
Dave Jones	Specialist, Right of Way II  Encroachment Design Review: East, Northeast, Central, West Districts	(610)-904-4409 5 TEK Park, 9999 Hamilton Blvd. Breinigsville, PA 18031 DAJones@buckeye.com

Daniel Mangum	Sr. Specialist, Right of Way & Development South District: Texas, Louisiana, Tennessee, Alabama, Georgia, South Carolina, Nevada, Florida, North Carolina	(832) 325-1626 One Greenway Plaza, Suite 600 Houston, Texas 77046 DMangum@buckeye.com
Teriann Williams	Right of Way Coordinators  Easements and Records:  Supporting East, Northeast,  Central, and West Districts	(610) 904-4418 5 TEK Park, 9999 Hamilton Blvd. Breinigsville, PA 18031 TEWilliams@buckeye.com

## Attachment 3: State One Call Systems (National One Call System - Dial 811)

State	One Call Program	Phone No.	Website
Alabama	Alabama 811	(800) 292-8525	www.al811.com
California - North	USA North of Central / Northern California & Nevada	(800) 227-2600	www.usanorth.org
- South	Dig Alert & Underground Service Alert South	(800) 422-4133	www.digalert.org
Connecticut	Call Before You Dig	(800) 922-4455	www.cbyd.com
Florida	Sunshine State One Call	(800) 432-4770	www.callsunshine.com
Georgia	Georgia 811	(800) 282-7411	www.georgia811.com
Illinois - Non-Chicago	Julie, Inc.	(800) 892-0123	www.illinois1call.com
- Chicago	DIGGER - Chicago Utility Alert Network	(312) 744-7000	www.cityofchicago.org/transportation
Indiana	Indiana 811	(800) 382-5544	www.indiana811.org
Iowa	Iowa One Call	(800) 292-8989	www.iowaonecall.com
Louisiana	Louisiana One Call System, Inc.	(800) 272-3020	www.laonecall.com
Maine	Dig Safe System Inc.	(888) 344-7233	www.digsafe.com
Massachusetts	Dig Safe System Inc.	(888) 344-7233	www.digsafe.com
Michigan	MISS Dig System, Inc.	(800) 482-7171	www.missdig.net
Missouri	Missouri One Call System, Inc.	(800) 344-7483	www.mo1call.com
Nevada	USA North of Central / Northern California & Nevada	(800) 227-2600	www.usanorth.org
New Jersey	New Jersey One Call	(800) 272-1000	www.nj1-call.org
New York	Dig Safely New York	(800) 962-7962	www.digsafelynewyork.com
New York City & Long Island	New York 811, Inc.	(800) 272-4480	www.newyork-811.com
North Carolina	North Carolina 811	(800) 632-4949	www.nc811.org
Ohio	Ohio Utilities Protection Service	(800) 362-2764	www.oups.org
Pennsylvania	Pennsylvania One Call System, Inc.	(800) 242-1776	www.pa1call.org
Rhode Island	Dig Safe System Inc.	(800) 344-7233	www.digsafe.com
South Carolina	South Carolina 811 / PUPS	(888) 721-7877	www.sc811.com
Tennessee	Tennessee 811	(800) 351-1111	www.tnonecall.com OR www.tennessee811.com
Texas	Texas 811 OR Lone Star Notification Center	(800) 344-8377 (800) 669-8344	www.texas811.org www.lsnconecall.com
Wisconsin	Wisconsin Diggers Hotline	(800) 242-8511	www.diggershotline.com

#### Attachment 4: Application for Design Plan Submission and Encroachment Review

#### **INSTRUCTIONS**

Prior to completing the following Application for Design Plan Submission and Encroachment Review (application), please review these instructions to determine if an application is required and to ensure that all necessary information has been obtained. Failure to follow these instructions and/or failure to provide the required information will delay the review process.

**One Call Notification** – To prevent damages to pipeline facilities from subsurface excavation or any activity that disturbs or impacts the depth of cover over underground facilities, Buckeye participates in "One-Call" organizations in all the states in which Buckeye has operating facilities. A list of the One-Call organizations Buckeye participates in is listed in Attachment 3 of the Right of Way Use Restrictions Specification. Placing a one call notification will put you in contact with the appropriate Buckeye Field Representative

**Buckeye Field Representative Coordination –** Discuss with the Buckeye Field Representative a summary of the project and potential encroachments. The Buckeye Field Representative will determine if any additional information such as pipeline depth of cover is necessary and if an application is required.

Application and Plan Submission -

#### **SUBMIT APPLICATION AND PLANS TO:**

Buckeye Partners, L.P.

ROW Department

Attn: Encroachment Review

5 Tek Park, 9999 Hamilton Blvd.

Breinigsville, PA 18031

encroachmentreviews@buckeye.com

With subject line reading

"Encroachment Review Application"

Buckeye requires a minimum of <u>60 days</u> for technical review upon receipt of complete application with all relevant fees and complete and accurate design plans. Submission of plans electronically to the above email address is encouraged and acceptable, but signed application and fees must follow by mail.

**Relocation or Modification –** Should the initial encroachment review result in a determination that Buckeye facilities must be relocated or modified because of the request, additional review time may be required. A Feasibility Study will be performed to prepare a scope of work, cost estimate, schedule and project plan; the cost of which will be borne by a party or parties other than Buckeye and must be paid before the relocation or modification will commence. A Technical Services Agreement between Buckeye and the responsible entity will be prepared to specify the duties of each party. A Letter of No Objection or Encroachment Agreement will be issued which will authorize the construction of the proposed encroachment under certain terms and conditions.

**Permission / Notification -** A fully-executed Approval Letter, Encroachment Agreement, Reimbursement Agreement, and/or Technical Services Agreement is needed prior to construction. Buckeye must be notified 10-days prior to construction to allow for the scheduling of a Buckeye representative to be present. It is also the encroaching entity's responsibility to notify the owners of any other pipelines, communication lines, other third party property or facility owners located within the proposed project area and to secure any additional needed rights from these parties where Buckeye's rights are limited.

If construction of the aforementioned project does not commence within three calendar years of the issued approval letter date, the Crossing Party shall submit a new application and resubmission fee. The Company shall have the right to reconsider the conditions and privileges granted, and have full right to consider current policies and procedures at the time of resubmission.

<u>APPLICATION FEES</u>: A non-refundable Encroachment Application Fee must accompany all encroachment review requests for private development within Buckeye's right-of-way. Any request submitted without the required application fee, or that does not contain the specified information in the format requested on the application, may not be considered. Remit payment by check payable to: <u>Buckeye Partners, L.P.</u> Buckeye may require a developer to enter an agreement to pay any outside consultant costs that Buckeye deems necessary for a complete review of the proposed encroachment(s).

**Initial Encroachment Application Fee is \$2,500**. Following initial review, all necessary plan resubmissions until plan approval shall be accompanied by a **Resubmission Fee** of **\$750**.

**Small Project Application Fee is \$500.** This reduced fee is reserved solely for single utility line service crossings or requests for installation of a fence or other residential-related improvement within Buckeye's pipeline easement.

#### **Application for Design Plan Submission and Encroachment Review**

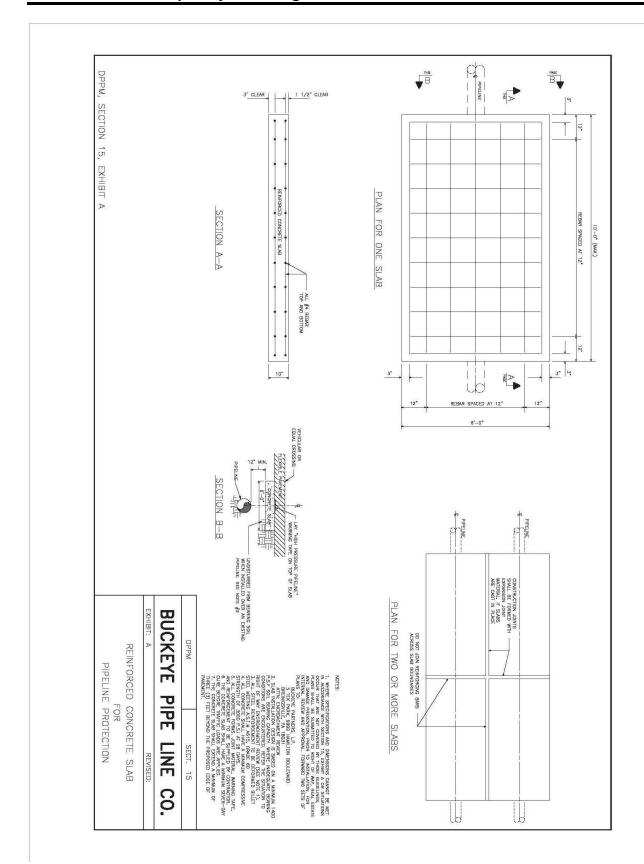
#### **PROJECT INFORMATION & LOCATION BUCKEYE PARTNERS, L.P. Project Title** Project Address State Zip Code City Latitude Longitude Municipality County **APPLICANT INFORMATION:** Name and Title of Applicant Company Email Address Phone Number Address City State Zip Code LEGAL NAME OF INDIVIDUAL, COMPANY, OR ENTITY TO WHICH PERMISSION WILL BE GRANTED: Name Name and Title of authorized signatory for company or entity Address City State Zip Code **Email Address** Fax Number PROJECT INVOLVES THE FOLLOWING IMPACTS TO BUCKEYE'S FACILITIES (CHECK ALL THAT APPLY): Cover, grading, and drainage pattern changes Aboveground and/or underground structures Road, driveway, sidewalks, and parking areas Utility crossings including gas, water (steam), sewer (storm/sanitary) - include trench backfill detail Electrical, fiber-optic, and communications cables П Temporary access roads for the crossing of heavy/construction equipment Railroad crossings Farming and field tile П Construction-induced vibrations Blasting operations (attach BLASTING PLAN) Seismic vibrating operations (attach SEISMIC VIBRATING PLAN) Exposure of the pipeline (attach SUPPORT PLAN) Boring, drilling, or tunneling near the pipeline (attach DRILL PLAN)

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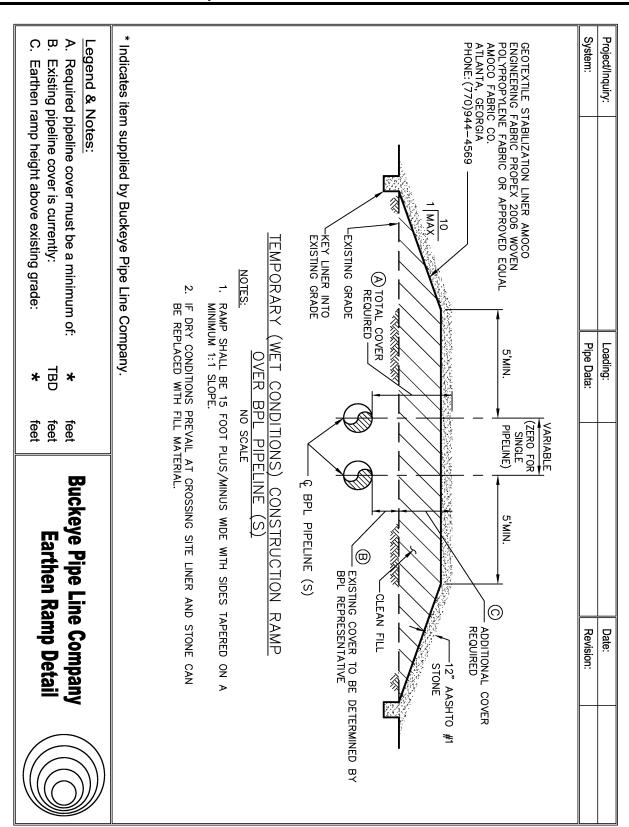
Other:

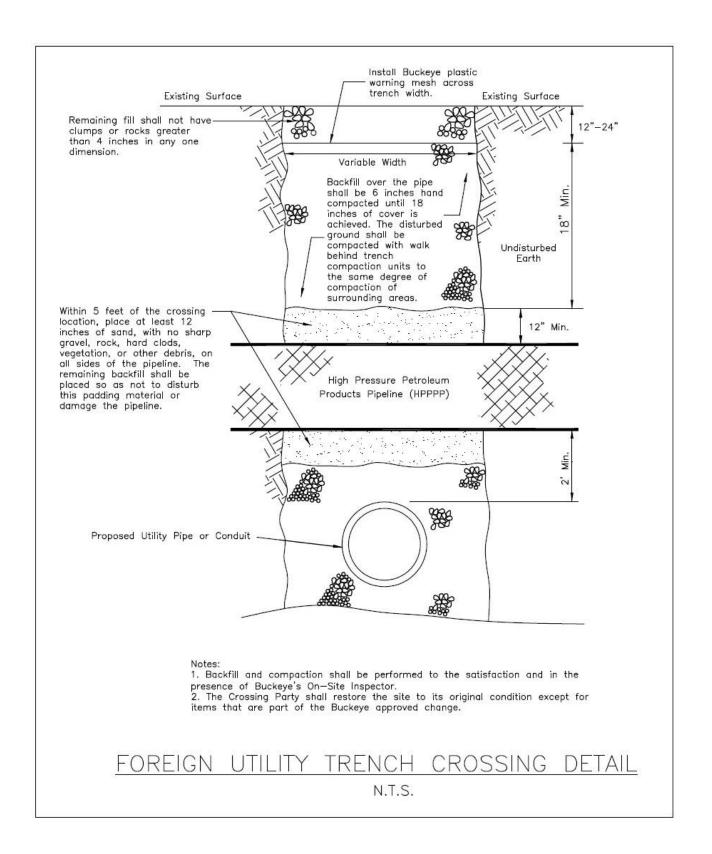
### **APPLICATION MUST CONTAIN THE FOLLOWING:** Completed and Signed "Application for Design Plan Submission and Encroachment Review" Form Encroachment Application Fee\*\* (see guidelines below) Design Plans (1 paper copy, 1 electronic copy), depicting the following: ☐ Field-verified location of Buckeye pipeline(s) location and width of Buckeye's easement tract Name of Buckeye Employee Design One Call No. ☐ Field-verified depth of Buckeye pipeline(s) along all proposed road or utility crossings, drainage channels, and all other areas of proposed grade change within the pipeline right-of-way (attach a copy of any field data provided by Buckeye Representative) Date of Pipeline Depth Investigation Name of Buckeye Employee ☐ Buckeye pipeline(s) labeled "\_-inch High Pressure Petroleum Products Pipeline" (line type "-HPPPP-") ☐ Buckeye included on Utilities List, and Local Contact and phone number on plans ☐ Buckeye Pipeline(s) highlighted in yellow. List all plan sheets on which Buckeye facilities are located: ☐ Location of ground disturbances (blasting, seismic testing, pile driving, jackhammering, etc. within 1,500 feet of Buckeye pipeline(s) ☐ Proposed location(s) where construction equipment will cross the pipeline right-of-way ☐ Structure setback distances from the pipeline right-of-way and from the nearest pipeline ☐ Proposed landscaping within 25 feet of either side of the pipeline(s) ☐ Any permanent fencing that will limit/encumber Buckeye's access to the pipeline right-of-way ☐ If the drainage pattern will be altered in any way over the Buckeye pipeline(s), a drainage plan that identifies new flow paths and all inlet/outfall/collection points ☐ Right-of-Way Use Restrictions specification included as part of final design plan (can be done by adding a drawing sheet to plans and appending (cut and paste) the specification onto this sheet. For property improvements that involve grade/payement alterations, road work (new construction or improvements of existing), utility crossings (buried and overhead), or other subsurface or on-surface structure installations within Buckeye's right-of-way: ☐ Separate plan and profile drawing of Buckeye pipeline(s) for existing and proposed conditions. ☐ Subgrade details that show materials and thickness of each paving layer/course. Amount of existing cover that will be removed or new cover added over the pipeline(s), and proposed final grade amount of cover over the pipeline(s). ☐ Clearances between Buckeye's pipeline(s) and any existing and new (buried or overhead) utilities that cross the pipeline right-of-way. ☐ Show the clearances between Buckeye's pipeline(s) and each proposed substructure at the two closest reference points. ☐ For any utility to be installed via boring, drilling, or tunneling, include a detailed procedure of this work with your design plans. Note: "Blind" boring is not permitted. Buckeye's pipeline(s) must be exposed during the bore operation to ensure that the bore head crosses safely underneath the pipeline(s). Page 3 of 4

I cert	eby authorize Buckeye to contact the Engineer/Survey firm which pre tify that the information provided is accurate and I realize that in validate this application.	
	□ Drill Plan	
	☐ Support Plan	
	☐ Seismic Vibrating Plan	
	☐ Blasting Vibrating Plan	
	Supplemental Plan Information (as applicable)	
	in order to perform your work.	



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**Attachment 8: Blasting Plan Submission Form** 

INFORMAT	TION SECTION
Blasting Contractor -	Contracted by -
Company Name:	Company Name:
Phone:	Address:
Email Address:	
Contact Person:	Contact Person:
Project Name:	
Address:	
*Latitude:	
*Longitude:	
Location and Distance (in feet) to Nearest Buckeye Pipelin	e:
Date of Blasting:	
EXPLOSIV	/ES SECTION
Type of Explosives:	
Max. Charge / Hole (lbs):	
Charge Delay (ms):	
No. of Holes:	
Max. Depth of Charge (ft):	
Max. Diameter of Charge (in):	
÷ , ,	sulated Particle Velocity at a point -
Depth of Blast Area (ft):	300 feet from blasting event (in/sec):
Depth of Overburden (ft):	200 feet from blasting event (in/sec):
Type of Rock to be Blasted:	100 feet from blasting event (in/sec):
Density of Rock (lbs/cu-ft):	Directly above pipeline (in/sec):@ ft
	NT CHECKLIST
	easurements, and delay patterns relative to Buckeye facility
involved and each charge.  □ State Approval Letter	
□ Blasting Contractor's Qualifications	
□ Blasting Contractor's Insurance Certificate	
□ Blasting Contractor's Safety Plan	
OMMISSION OF ANY INFORMATION DECLIFCTED	A DOVE WILL DELAY VOLID DI ACTING DI AN DEVIEW

OMMISSION OF ANY INFORMATION REQUESTED ABOVE WILL DELAY YOUR BLASTING PLAN REVIEW

Buckeye requires a minimum of 14 days for technical review upon receipt of complete and accurate blasting plans

#### Attachment 9: Excavation Safety Checklist 195 F-09, FORM A - EXCAVATION SAFETY CHECKLIST

The information noted on this form is intended to communicate general information about our pipeline(s) and is not intended to be solely relied upon by any party for the purpose of excavation or any similar purpose.

By law, to enable all participating utilities time to mark their facilities, the **One Call Center** in your state requires notification by calling 811 prior to any excavation. Buckeye Partners, L.P. is a member of this One Call enterprise and will automatically be notified through this system. In addition, a Buckeye inspector will perform and/or review with the excavator representative the applicable checklist items below.

Pipeline	e Locat	e Act	ivity:									
	the e	xcava	tor and/or engineer exp	copy of the written proje plain the extent of the wo per of utility crossings, etc	ork area, location ar	-					_	
	Estab	lished	I the pipeline(s) location	and marked the line(s) pe	er state One Call req	uireme	nts thr	oughou	t the enti	ire work a	area.	
	Photo	grapl	ned all established pipeli	ne markings throughout t	the work area.							
Commu			th the Excavator and/or	=	_							
Ш				s advised that a Buckeye	•							
	■ Monitor the excavation site daily when work is performed within 25 feet of a Buckeye pipeline.											
			•	ccavation and backfill ac ess a Buckeye pipeline fac	* *	rithin 1	LO fee	t of a	Buckeye	pipeline	or durir	ng the
		Bucke		ns instructed to call 800-3 keye inspector was not parge.								
			tor was advised that onliger can be accepted as a contraction work aroun	y backhoes or trackhoes v d a Buckeye pipeline.	vith a steel plate we	ded ac	ross th	e teeth	of the bu	icket are	permitted	d to be
	expos	ed du	iring excavation activity	e Buckeye inspector is re . The excavator understa e ingress and egress to exa	nds that he/she is r	espons	ible to					
	Walke	ed thr	ough the work area with	the excavator and comm	nunicated the location	ns of al	l Buck	eye pipe	elines in t	he plann	ed work a	rea.
				pipe size(s), approximate characteristics of product								ligging
				the One Call Center 811 . This service is provided t	•	if the	Bucke	ye mark	ings are	destroyed	d or need	to be
			tor was advised that bef e warning mesh over th	ore any exposed Buckeye e pipeline.	pipeline can be bac	kfilled,	the Bu	ıckeye iı	nspector	will direc	t the plac	ement
				y contact with the pipelin cavation to permit further				-			-	
	expos Bucke	e the	pipeline again to allow ay seek monetary comp	lure to comply with the c r an examination of the p ensation for all repair co rincipal Contractor, Excava	oipeline at the excar sts. Buckeye may al	ator's so repo	expen ort this	se. If da	mage to	the pipe	line is dis	scovered,
	If you	are u	nable to reach the repre	esentative designated belo	ow, or <b>in case of an</b> o	emerge	ncy, r	equest a	ssistance	by callin	g <b>1-800-3</b>	31-4115.
	ne C			Line								
Work	Tick Ord			Segments: Mile Posts:								1
	eare											1
	Stre											
		В	uckeye Informa	tion	Prope	rty C	wne	er / E	xcava	tor /E	ngine	er
Da	ate:				Name					- , <del>-</del>		
Nai	me:				Phone							
	Cell				6:							

Phone:

Signature: